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 taagagcaaa ccgatccatc cacatggttg cctcttggtg taaagagtcg atcacccttc 300
 ctctagcctc tttttccgcg tataacttggg catattcgtc cgcaatccta tgctcgtggg 360
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 tctc 424

<210> 36538
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36538

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 ctgaacacac ttcggccatg gcccttgctt tggctagtag tcgcgggagg tcttgacttc 180
 catttaaggt caaggcgaac ctatccatcc acatggctgc ttcttgatgc aatgcatcaa 240
 tcaccctccc tcttgcttcc ttctcggcgt atgcttgtgc gaagtctct actagctttt 300
 gctcatgggt canagactgg tttaaactct ctttgtaacta ccctattata gctagcatgc 360
 tttgctcgt ggcttctcaa actcgggagc caatctg 397

<210> 36539
 <211> 390
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36539

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 agtcaccccc aacagccaac aagtcagcca ccatttgggc tcccaaaagg ctgatgccta 180
 tggtgccaat tgggccctta ttacaacttg aactaaacct aactaaagcc cttttagttg 240
 attaacccaa aacatatttt tggtcagcca actttacaag gattgtgcca ttatttagac 300

aaactaaaca ctctaaaatt gaaacaaagt ggtgtcattt agtcctcctc catttgggcc 360
atgatacaac tcacaaccct tggacttttc 390

<210> 36540
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36540

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cttttactcg tatgtctgat tgagtcccg tnatatcgag acgctcgaaa ttgaataccg 180
aagctctgac aaatcaaacg acaataactt ttactcgaat gtccgatgag tccgaatata 240
tcgaaatgct cgaaattgaa tggtgaactc tgagcatatt caacgacaat aacttttact 300
cggatgctga ttggtcccg atgtatccaa cctcgaaatg atgtgaactc tgacacatca 360
aacgacacaa ttttactcga tggtgattga gtccgtaa atcgaaacgct caaatggaa 419

<210> 36541
<211> 362
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36541

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caaatgacaa tgcttaccac cacacatgca aaagctaaat catcaaaaaa gcctaaaagc 180
tcaaacataa gccaaacagc cnatatcatg aacatgaaag ataataacca acagttgggt 240
gcagctttta ataatcaaga ttcaacagta ccttaccttc aaatctcaa gcattaatca 300
aactttagtc aaactggcag gctaactgaa gacctgaact acaactcagc atnatcacat 360
ac 362

<210> 36542
<211> 382

<212> DNA
<213> Glycine max

<400> 36542

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gctgcataaa tcaaaagaca ccattgtttt ctatcttcaa ctaaaccctt tgctagtcca 120
tttagataaa atataaacat aaaaaaaaaa tccagggtttt catgtctact ctagtcatga 180
tgatcagggtt ttgggtaatg aaacacaaat aactctgaaa ttttttgaga gaactaaata 240
agaaaaatcc taacaataag gggaaaaaaa taattaagaa aatcaagaga tgtacacatt 300
acagatgtac aagaaagcag gatagtgaga cccctagatc aaccaaaaaa aggatattta 360
gatttcctaaa tgttttttatt at 382

<210> 36543
<211> 206
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36543

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tgcttagtgc aattctccat tctcaaactt tttcggagcc ccatgaatta tgtnttcggt 120
catgtgtcct ccaccttoga gttaggagct atgcgtagtg attggcttag gcaattctcc 180
attctcaacc tttttcggag cccatg 206

<210> 36544
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36544

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cttaagccaa gagtaccttt actcttatac ctctcaatag ctgacgaggt tgtcagctca 120
accctcgtag atgaggaagg gaaacaccag cttcccatat acttcaccag ccgtatcctt 180
catgatgtcg ggaagcggtg tcagatgata gagaaggtaa tgtagcact cataaaaggg 240
ttgatgacac ccttgcgcaa atgcctaaac agccaagaag tagattatgt catgcgagag 300

ctacatgaag gaatttgagg tctctataacc ggggcacgct cccttatgac aaaggtggtg 360
tgtgtcatct agta 374

<210> 36545
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36545

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gaaatcagaa aaaaattact attccctgat aagtaatcca agccaaacat ataagacttg 120
ttctgttaca agataaacct cttgccatta tacttctcac ccttttcttg gcaccctaatt 180
taaacaagcc cctcatgtaa atgggtgcaaa aatctctctt ctaaacgaag tattgctttg 240
aacctcacat gttagataag ggggaaattc cacttaattt tactaccac aagttccata 300
gccatctcca tgtaaacgtt ctcttttcta tgggtgttgt agaggaaaga ctgttgatga 360
caatatatac attta 375

<210> 36546
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36546

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actcattacc cataactaat gaccagaag aaccagcttc tgttggttgt aagcagtatg 180
agacaactcc tccaaatgtg gcattagttt gagataccaa tgagaggtaa cttcttccca 240
accccataag gccagagact cctccaaata gacctttgtt gttcctaccg acaccaaata 300
caaatcact cactgaaaca cctccaagac taagtgttc aacacctagc tcaccattag 360
tgtaagatcc atcaccatag ttaaccacat agttacaagt tgatggatta ctacttccac 420
aggctcctg 429

<210> 36547
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36547

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 aatacatthh atgcaatact aactagtata aaataacatt aatgtgtgcc accaagcact 120
 tatagtgaac ttcaatgaaa actthttcatt tattaacttg taaccggtat tcttaaaaca 180
 tttattgaca agagtgtctgc taaatthttct tatgataaaa aatgagagga ttaaactcaa 240
 gthttcactth tctthttctta tttatactat tagcatcaat ttgtagatgc aattggctth 300
 gatgatttga tgatgatcat gatgatgtgt tgcaattgat gcaaattgggc thttcaagat 360
 taaaattcaa gacaatactt caagattagc agtcacatca tcaagatgat cactagaata 420
 tta 423

<210> 36548
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36548

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 gcaattctta tcaatatata taattngtga tacatatacc gaatgattga thttatthtca 120
 catgattgaa gcttggtgta thntcataca actctcanat ggattatgaa cctccattcc 180
 tctgagaccta caagaccctt gthtctaaacc accttgatga thcaaagaat gagtactcct 240
 cthttggtgga gagatcatgt gaactaccag tgatcgatct tggccagthc aatggcgaga 300
 gagacatatg catgaaaaaa attgcaaaac tgctagtata tggggththt tccaagtcgt 360
 taatcatggg attcacagga gctgctgaaa agccttgatt tgaacaaaag aaattgttct 420
 atcaacctth thtgaat 437

<210> 36549
 <211> 155
 <212> DNA
 <213> Glycine max

<400> 36549
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 ataccacttt gagaattgat tctcacataa ggccattatc ttttttcagg tttcctctag 120
 cgatcaacaa ttttcttcca taaatgatca aaaag 155

<210> 36550
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36550

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 atgtatacat aattntgatg ataaagactc aaaataaggc tcatttgctt caagattaat 120
 acaagattgt ttcaacaaac aaagccttga ttcaagattt cttcaagatc aagccttgctc 180
 ttanaacana aggtttcaag tcatccaagg cacatgtaat cgattaccaa tacatgtaat 240
 cgattaccaa tgggttgaaa gtgtgtaatc gattaccaga gactctaaac gttgggaatt 300
 cagaatttaa atgaagagtc acaactgttc aagacatata actgtgtaat cgattacact 360
 aatgc 365

<210> 36551
 <211> 151
 <212> DNA
 <213> Glycine max

<400> 36551
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 ctccacatca tatctctgcg tgcgtcatgc atcatcatga gaaagtgaga agaaaactat 120
 acaagtcaga aaactatctt cagaaagaaa a 151

<210> 36552
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36552

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 tgtaagataa aaattgctta ataggattgt aagtatagta taccactgca tgttggggca 120
 tctcagcatc aacaggtgct gctacaggtg gatatggcat gtttggttga tcatcaggca 180
 acacaagtgg gtgaggcata actattgtag aatcgtgtgt gacaccctct accccgacat 240
 acatataaat aaaaaaanat ataaaattgt ggaatttaat taaaccaatt ctattcaaatt 300
 cacgtaaaca aattcacgta ggtaacaggt tcacattcgg gttaatcacc anaccaaaaa 360
 cttatcaatt aagggtatga aaacatctcc gacttanaac aaggccatcc aaaactccaa 420
 agaatgacta aagactcacc atgtgaaaca atatgata 458

<210> 36553
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36553

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 ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttggttgtg gatgatttct 120
 ccagatctac ctgtgtcaac tttatcagag agaaatcata cacctttgaa gtattcaagg 180
 agttgagcct aagacttcaa agagaataag actgtgtcat caagagaatc atgagtgacc 240
 atggcacaga gtttgaagac tgcacgtnta ctgaattctg cacatctgaa ggcatcactc 300
 atgagttctc tgcagccatt acaccacaac agaatggcat agttgagacg acaaacatga 360
 ctttgcaaga agttgctatg gtcatgcttc atgccaaaga acttccttat aatctctgtg 420
 ctgaagccat g 431

<210> 36554
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36554

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 ccttaaatta ttactttcac gaattntgat tatatttctg agaaaatttt cctagaaatg 120

ttattattaa aatattatth gaatattatt ctcataaaaa atgtttggta aatattthta 180
 agttttattht aatthtaaaaa aaatattaaa tagataaata aatgagatag aataagagga 240
 aagtggaaaa ttattthtaaa taatttcatg tgaatataag atttccaccc ttatacatga 300
 gaataagaaa agatggaaaa atatatgtac aatggatntg tgagaatgaa ttaaccaata 360
 actttcttgt tatntcaatt ttattthaaat tatcttacat tctacaagat attthcaaaa 420
 ataacatttc taatcaataa atttctaac 449

<210> 36555
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36555

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 tttgggtactc gttacttaag aaatatataa gaaatatatt ttacacgttc ttattagaca 120
 aaattataaaa ctcataaagt ttttcaaaag gcgattaaca gtattgtgaa taaggattat 180
 cgtagtaaaaa acaattatat tttcttttct tttcttttgt aatttataaaa aatactcata 240
 ttaatccatt atctththta ttattaatga ttctagggcc ttaaaatatg atttcttaga 300
 aagaagtttc ttttctttt gcagtaatct acttcggtct gtaattttgt atatctcact 360
 tttaccgtaa cgcaatagga naataaatga gttataaata atttgtgttg actttctagt 420
 g 421

<210> 36556
 <211> 347
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36556

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 aatgggttac agatcttcta tacaatatca gttacgaaaa ttaggttgag gttatgacaa 120
 tgggtgcgcc tctatggttt agagatatct tgtgacatat gtaacattct attgttacca 180
 ctagagttag attccttaga tttagcagag ggttctttgc tctccggtt gtgctatagt 240

<210> 36559
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36559

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 agcttagcta cacacacccc tctcataaca aagctcacct ccttgagaag cttccttaag 120
 aagattccta aagaagctag agcttagcta cacatacctc tctaatagct aagctcacct 180
 ccttgagatg agaagctaga acttagctac acacccccta taatagctaa gctcaccccc 240
 atgacaaaaa aacatgaaaa tacaaaaaag attccttact acaaagacta ctcaaaatgc 300
 cctgaaatac aaggctaaaa ccctatacta caagaatgga caaaatacaa ggcccaaagc 360
 aaggaaanac ctattctaatt atttaciaag 390

<210> 36560
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36560

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 ttaatggnga ttttccacca tggagatgca gcggaagaca aaggagaaga ggtgagagga 120
 ggcgccatcc actanggaat aagccatgga agaatagagct tcaccaccaa gtgagcctta 180
 gataagaagc ttggaaggat gcttcaatgg aggaaaagaa agagggagag aaagagagag 240
 ggggggagca cgacattgaa ggaataaaaag agggagagaa gtggaacttt gaagtatgtc 300
 tcacaagact ctcatctatc anagttacaa caagtgttac acatgcttct atttatagac 360
 taagtagctt ccttgataag ctntcttgag aanacttcct tgagaagctt ctttgaaaaa 420
 acttcttgag agctagactt agctaccaca ccctctctaa cta 463

<210> 36561
 <211> 402
 <212> DNA
 <213> Glycine max

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 gttgaacttt gatgcgcac tcacaagttt cacattcatc aaagttacaa caagtgttac 180
 acatgcttct atttatagcc taggtagctt ccttcataaa cttccttgag aagcttcctt 240
 cagaagctag agcttatcta cacacatcct tctaatagct aagctcactt ccttcatatg 300
 agaagctaga gcttagctac acatacacc tataatagct aagctcacc tcatgctaaa 360
 atacatgaga atataaaaa gtccctacta caaagactat tcanaatacc ctagaatac 419

<210> 36564
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36564

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 acgagacatc ttgccaaaca aagtcagggt agcgataact cgcattgtgt ttttcttcca 120
 tgctatatgt agcaaagtca ttgatccagt caagtttgat gagttggaaa ataaggcccc 180
 aattatactg taccagttgg agatgtatct tcctgtctt ctttgacatc atgattcact 240
 tgattgcgca tctgggtcaga gaaatcaaat gatgtggtcc tgtttatcta cgggtggatgt 300
 acccggttga gtgatacatg aagatcttaa caggttatac aaagaatcta tatcggtccag 360
 tcgcatctat tgttgagagg tacattgcaa aggaaagcca ttgattttgt tc 412

<210> 36565
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36565

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 gtgatnttcc accatggaga tgcagcggaa gacaaaggag aagaggtaag aggcggcacc 120
 atccactang gaataagcct tggaagaagg agcttcacca ccaagatgag ccttggataa 180
 gaagcttga gaggatgctt caatggagga taagaaagag agagggggga gcacgatatt 240
 gaaggaagaa aaaggagag aagttgaact ttgagttgtg tctcataaga ctctcattca 300

tcanagttac aacaagtgtt acacatgctt ctatttatag actangtagc ttncttgaga 360
agcttctttg agaaacttcc ttgagaagct agagcttagc tacacac 407

<210> 36566
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36566

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atcaagctca tttagttgat tttatcctgg aaaccacttc actgggtgat gtacaagaca 120
cctttgtttg taggaggtca aggcattact agacgaanag gtatccagtg gacgataaat 180
tcttcttaag gattttcaag acttagaaga aaggttgaaa tccttaacca tgactcttga 240
aaattcagaa gtagaacaca aggaacccca cagacaaatc tagtcatggt ttcaaaggca 300
aaaaggttgt gcatggtgaa gaagttacta tttgttattt ctatggaaag gtgggtcatg 360
agactcataa atg 373

<210> 36567
<211> 86
<212> DNA
<213> Glycine max

<400> 36567

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agctctatat gctgctatgc cettca 86

<210> 36568
<211> 700
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36568

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nctcagctcg catggccctg cagggtnncg actcttagag ggatcncnc cgggtaccgc 120
atgtttctga atttgcgtct ctatnagtgg gagtnncgta tntacanatn tctacgtggg 180

cnnctgtcgt nntttacana ccgtnnctgt aactgggngg aaaacctctn ggcnngntta 240
cctcaacctt annatgcnn cttggcagcn anncatcccc nnnctttcgc ncaagctggg 300
cngnntaata gcaganagaa gagcncncgc nacncnngat ctgcccnnntt cccanacnna 360
gttggcgcca gcnccctgaa tgagcagaaa tgagcngcnc taggatgccc ggtatntatt 420
cttcctttac cgcccatctg tagcnngagt atttcaccac ncgcatttat ggtggcacnt 480
anctcagnnn acaatctggc ttctggatgc nncgcatnna gttaaagcnc angcncncn 540
gaaacaccnn cgccannnac actccgcttt gacngccgat acnctnctnt gcgggncngc 600
ntncggaata tataccntcg tngtaacggt actgcttatg caaaacgtca ttagcgaatg 660
agctcacgac cttcattagt tcattcacag aacaaacccg 700

<210> 36569
<211> 437
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36569

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tggtgctgcc atgcatcagt gtagagtctt ccaaaaaatc cctgagatca ccattcgttg 120
tacacacaat caacataaga cgataatgtc atactgacta tgtctatccg cttcatcacc 180
tagaatgaat atttttttaa taattaaata tataaattat taaaaattgt aataactaaa 240
tattttataat atttgaatta tatctaaaat ctataataaa taatttatgt tgtgatgcat 300
tattactttt aattattgat aatttctttt aaaagatatt caaattcaag ttgacactac 360
aaatattata aattatagat ggaaagagat aacagttacg tctaataaat atatatatat 420
atatatatat atatata 437

<210> 36570
<211> 352
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36570

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ttaatatcgc agatgggCGT acatatctaa agatcagtgG gagtaagggtt atttttctaa 120
 ttctgtaagt cgggtgatatc ttgtntacaa ctaatgatct tgggtcttctt catgaggcaa 180
 taagtatttc tctagacact gtgaaatgaa agatatgggt gagacaagct atgtgataag 240
 gatagaaata ttctgaaata aatcataagg attgttaagc ttgtcttaga gaacatatat 300
 caataaagta ctagagagat ttaggatgga agagtgtcA tcatcacccg tt 352

<210> 36571
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36571

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 ttaaccaac gaagacactg acaaaaactt atgttctcct ttntggacaa agtatgataa 120
 gctgggggca agtaaatntt cttcccatca gaccttggat gcaattgtga tCGtatcccc 180
 atctcagcta gatcttgacg ggtattcaac ccaccttcg tcttgCcttg aatgttaagg 240
 agcatcccaa tcacactgtc acatacattt ttctccacat gcataacatc aatacaatgt 300
 ctaacgtcta gatcagacca gtacggaaga tcatagaana tggacctctt cttccatatg 360
 caagtcttac tgttatccct tctttgggtc tttccaaata tagtattcag gtgctgaacc 420
 cgtattatac ctgc 434

<210> 36572
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36572

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 acctgtatat ctacttaatg atgttttatg tgttctctgt gctatcagta tGtcattnta 120
 gtgtgttntt gccttgatca catagatgca tngcttgTta ggatcattca acagtggaaa 180
 ctgggttgat tcttagaact tgataggaaa tggctagttt atcgtattat catgagggat 240
 cagggtacgg taacctagtt gtttgtatgt ttgtcttatt gtgattctgg tCgagtntag 300

tccaacaata ggaatctaaa gatgatgctn gatcgggatt aggctagact atcat 355

<210> 36573
 <211> 517
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36573

nnnnttaggg gttccccgtg aacctagnnt cntgnananc nnacaatgac ccaggatccc 60
 ttagagtcga cctgaggcat gcaagcttng ctttctcaat taacccttt gaaggtaagt 120
 gggttgctcc gctgatagtg atctaaacca tggtagatag ttactcctcc accgactacc 180
 tgattggcca taacttgccg caagttgttc aaagcctcgg taatgagtca tactcgctca 240
 tttctccac gcattacttc ctatgtcacg caagcaaaa aactttgaaa agagaaaaag 300
 aaacaatata tatatatata tatatatata tatatatata tatatatata tatatatata 360
 tatacgaca caataagagc tcactcctat ttatacaaaa aagcacatcg cgtaatagtt 420
 caciaagaaa cacagaacac tgctacacac attgcaataa gttctacttg tcagaaccac 480
 taaattacca cgtctaccc gacaaaaaac aaacaan 517

<210> 36574
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36574

ttactccgca cactggtggc ctcttgagaa tgaagcggct atttctcctt ttaatgacgc 60
 atggacactc atccctgacc caactataat tcgtgcgaaa ggtcggccan atcaacaagg 120
 ataaggaatg agatggattg ngtcgaacca tctcagcacc gacaaaaatg tagtagatgt 180
 ggagccgata ggcataacaa gcgtcgctgt ccaatgcaat ctaagcatgg gagttgttta 240
 aatcattgat ttatgtatgt tagtgaagtg acttgatatt gtttaagttc tcttaaatgt 300
 attaaatctg tcgggttgaa tgaatttgct agataataac attacttatt ttgggtttgtg 360
 tacattactc attttggttt gtatacatta ctta 394

<210> 36575

<211> 243
 <212> DNA
 <213> Glycine max

<400> 36575

atgggatgcc atgatgttta tgggtctataa tcctaactct ccgctctaca gagagcacia 60
 agaccactcc gaaattgcac acagtgggtca atgtctaaac atatcattgt tacagaagtg 120
 aattctgtaa atcatttcat atcactttta ttacctaag ttattgcttt caattcataa 180
 atatgtaact tcgacttaat ataatcaggc atctaactga aacaagtatg cgagctggga 240
 att 243

<210> 36576
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36576

ctatcaaccg ctgcttaact ccttaactgc acaagctctg aaatatttat attttcttga 60
 ggaaccttca cctgacgaag acactgacaa aaacttatct tctccttctt ggacaaagta 120
 tggcaggctg ggggcaagta aattttcttc ccatcagacc ttggatgcaa ctgtgctctt 180
 ataccatata cagctagatc ttgaagggtta ttcaagccat ccttcgtctt gccttgaatg 240
 ttaaggagcg tccaataaac actgtcacia acattnttct ccacatgcat aacatcaata 300
 caatgtctaa cgtcaagatc acaccagtac ggaagatcan agaaaatgga cctcttcttt 360
 catatgcaac tctgactttt atactttctt tgggtcttcc aaatacagtg ttcatgtgtt 420
 gaaccctgta tatacctgct cacc 444

<210> 36577
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36577

agctnnngntt cagatattct tcgngganng ctgcatnctc gtcccttgtc gcatgattgc 60
 caaaatccaa taactctgcc actggattat gtgcttcttt tggacaattt gtggaccaaa 120

caaccgtgtt gttgtgtgtc atgaccaa at tgccagaact gtacagtctc aagatggcag 180
 aggaatcatt tattgggttg ccaccgtttg caaccatac aacatgttgt gacngattat 240
 tcttgaacca aatccccagg taacttttgt ttggaagtcc aagattgaag aaaccaagct 300
 caaagattcc ccttgtggaa accatggtct ttccaaaact tgaggattgg gactgtgata 360
 tggatgatgt gttgtct 377

<210> 36578
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 36578
 gacctataga tactcaagct tgtgcgcat tgcgatagt atgttgccgg agatgtttat 60
 gttatattat gtaccaccgg attcgtattc cttatgggtg atagtgtttt tacatggagt 120
 tctaagaagc aaggcattgt gacactttct acttgtgaag ccgagtatgt agctgcaact 180
 tcttgacat gtcatgccat ttggctaaca agattgttg aggaacttca cttgttgcat 240
 aacgaaagca cacagatcta tgtagataat agatctgcac aagagcttgc caagaatccg 300
 gtgttccatg cacgatgtat gcatatagat acaaggatc atttcattag agagtgcatt 360
 accgataaag aactataatt gactcatgtg acaactca 398

<210> 36579
 <211> 377
 <212> DNA
 <213> Glycine max

<400> 36579
 attcttttat tcaaagctca tcttgggtgt gaagctcctt cttccatggc ttattcccta 60
 gtggatggcg ccgctctta cctcttctcc tttgtcttcc gctgcatctc catgggtggaa 120
 aatcaccatt aaaggacctc attgaagctc aaagatccag cctccataga agctccacaa 180
 gcaagtttcc atcaagtgtt aatcagagca caagagcttc aataggtgct ccttaaacct 240
 ccattaattt tttgctttac cttctcttcc attgttggtt cttcattttc ctccatgtat 300
 ctctcacat gtcttgtgct aaatttttta acatgattct ttagagtcta caccgattaa 360
 acttgctata gaagcta 377

<210> 36580
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36580

taagctcctt caactgcaca aggtctcttaa tattttatta gtatccttgt ggaaccttca 60
 cccgacgaag aactgacaa aaacttatct tctccttttt ggacaaagta tggcaggctg 120
 ggggcaagta aattttcttc ccatcagacc ttggatgcaa ttgtgatcgt gtgcccata 180
 cagctagatc ttgacgggta ttcaagccgt ccttcgtctt gccttaaagt ttaaggagcg 240
 ttccaatcac actgtcacia acattnttct ccacatgcat aacatcaata caatgtctaa 300
 cgtcaagatc agaccagtac ggaagatcaa agaaaatgaa cctcttcttc catatgcaac 360
 tcttactttt atccttcttt tgaggtcttc caaatacagt attcaagtgt aaacccgctc 420
 ata 423

<210> 36581
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36581

cataagatca ttgttcacat ctgaactatc cacaatcaaa gtgctgtctt ctgaataatt 60
 tctggctgaa tggaactggg aaactctgtt ggcattggctg taagagacct aactctgtt 120
 gatatacttg aagtatcagc agcagcacca caataattgc caacaacagc atctaaaaga 180
 tattccagat caacatctct gggacactcc aaacctttta tatgagcatg ctctcttntg 240
 ttgatacaag agttgattac tgtatgtttc ctcaacagag atacatattg acatatattt 300
 gcctgtctct ccatatgaaa ctgatccaag tgct 334

<210> 36582
 <211> 194
 <212> DNA
 <213> Glycine max

<400> 36582

acctgtcctt ctgtgaacta tcacctatga aacatgattc cattctaaga attggactgg 60
aatgttgata tgggggggttg tatgaactgt tgtgcttctt catagtttgc ctctgagaat 120
gttggaaggt gaatctataa gtgtttaagt agataaaaaa acaacacata aattaaagaa 180
aaacataatg tata 194

<210> 36583
<211> 434
<212> DNA
<213> Glycine max

<400> 36583

tcttcccaa ttttctataa atagggggag aagtgtttag attagtgttc accccttagg 60
cacttctctc tctttcgaat ttgcttaaga aaattgtttc cgtgaagaaa atccaagccg 120
aggcgcttcc gtaacgtttc cgtaacgttt ccgtgagtga tttcgcgaag gttttcgacc 180
gttcttcgac gttcttcctc gttcttcagt cttcaacggg taagtacctc aaaccaagcc 240
tttcaattca ttctatgtac ccgtggtggt ccacatttgg tttcatgtat ttttattctc 300
gttttcattt actttttata ccccttttgg acgtgcttaa gccatttatt taagtcattt 360
ctcgcttaac cttaaaataa aataaatttc caccgatcgt ttgaattgac catccgttac 420
tttggttgaa atga 434

<210> 36584
<211> 123
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36584

aactaacgca cacctgacgn ngnttttttgn ggggtggttn nnnnnnnnng tngggggggg 60
gggggttggg gggggggggg ggggtggggg ggtggggggg gggggggggg ggatgtgggg 120
ggg 123

<210> 36585
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 36585

nntgagggtt atgtggttgt tattgcaata tctatatgag aatacagagc angccttgaa 60
gactgcaaaa gttattttgca tagcaggatt cttttggcaa agggcgctccc tcctcaaaga 120
gtttttgatt tgcaagccaa gcttgcaaaag ctntggcatc ctttgggacg ttggcatatg 180
atcccaattg gaaaaggcta tttcaattct tctttctcct tagttcaaga tttacgtaag 240
gtattggtgg tagggatttg gaacctaaac cctagcactc tgaggctttt caactgaacc 300
ccanactnta accctaattt ggtgaaacaa accaataccc agagttgtat tcgaattcta 360
gggttagcac anaagtatgg agacaagcca tcctattctc catcgcaata ggtgttgagg 420
tccccctctgc acagatgatg cantgaatag tcg 453

<210> 36586

<211> 418

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36586

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aggaactctg gcacaagaga cttgggtcatt gccatcttga aagaatgcta aacatgaaaa 120
aaaggaaata tgcaaaagaa aatttgaaga agtttcaaata ggaggaatac aaatctgtta 180
gcacaccaat gaatcaaaat gacaagtta gcaaggaaga aggtgttgat aacattgatg 240
aaggatatta taggagcttg attggatgtc taatgtatct cactacaaca aggccaaaca 300
ttctatttgc tcaaaagaac aaaactggaa ttnttggtga caatcaagta gccattgcta 360
ttgcaaacaa ttccatgtgt catgggaaga ctaaacattt caacatcaag ttctatta 418

<210> 36587

<211> 450

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36587

ntanagcaca gcaacacaga atctaggtgt tcaacacccc ttantcaat gggttttcta 60
ggtttgaaaa gtgaaattta gaatgaggtta aatttgaagc aaactctcac ctcacacaag 120

tccataacat caatctaaac ttgctcaaac tgaatttaca cctaaaattc caccgaatca 180
aaatttgact cctcaacacc caaatttgcc ctagaaatag ctctttgttc attttgatca 240
tttgttcttc tctctagcac agtccaagct ttctcccaag tcttaaataga catttcaagc 300
tagtattaac tcaactntaac ctccatttac cacagaattc agacttagcc ttccaactct 360
canagcctca ctcttttttc cactcacaac accacattct cacttttctaa ccctaagtta 420
actctaccct tcattctctaa cagtttccat 450

<210> 36588
<211> 325
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36588

tcctgatttc cagcttgagg aattggcgag tggaggaacg ccccggcatt tacgcaacaa 60
gcataatgta aacctttacg gttttaaagc tctatagttg ggcctaggct ttatagtttn 120
tccctttgtt aaggctgtgt gtcttctgtt ttgaattta taatacaagg atctttcttc 180
atctgttctt ggtctctacc cattctcatt catttgcatt tttacttctt tttctgaaac 240
ggcagatccg atgacgagtc ctccgaaagt actaatacct gtgacccgcc tatcgacttc 300
aagcacgaaa tgaatcacac ggaag 325

<210> 36589
<211> 432
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36589

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tggagatgca gtggaaggca aaggacaaca ggagagggga ggcaccatcc actangaaat 120
aagccaacga agaaagagct tcaccaccaa gaatngcctt ggataagaag ctngaagagg 180
atgtctaat ggaggacaag aaagagagaa ggtgggagca cgatattgaa ggagtaacaa 240
agggagagaa gtggaacttt gaagtgtatc tcataaaact ttcattcatc aaagttacaa 300
caagtgttat acatgcttct atgtatagac taagtagctt ccttgagaac tctcttaaga 360

aaacttcttg aaaagctctt gagacacttc ttgagaacta gacttactac caccctct 420
atactaactc cc 432

<210> 36590
<211> 264
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36590

naggtgtacg catttcgaat gaacacggtc aaacatgggc tgcactngtc tgttttagact 60
gnacctgact gctgatatat cgagctgtca aagcctgcac gactaccga cttactgagc 120
tgaccttgct gtattacaac tggctcacac ttactatctt tggcctcaat ttttattaat 180
acatctcacc ttttatctac acatgtattc ttatgtact ttctgactaa tctctatacc 240
ctgttatatt tcattcttaa ttcg 264

<210> 36591
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36591

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tgggttttttc aatctacagc aacagcattg tattttcagc ttaatcattt ccacagaacc 120
aaacttggtta tctcaatagg aatagttcac aattaatata aagatggaaa acatttgaat 180
tacaatggaa ggaacaagtt aactaanact aaaatatcac tatcatattn tagtatttcc 240
caacaccacc tgcatttctc cagctctaaa gtgaactaca attactaagt tgaaagttgc 300
agttacatgc aaattatcca ccagaaagaa ggtaactgga tctagaatgc acgacactgt 360
tgtaaagctt tcaagctgta ctgtgttagc ctgctgaagc agtttatctg tgt 413

<210> 36592
<211> 226
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36592

tcgatatatt acgcgactca atcagacatc agagtaaaaa gttattgtcg tttgaatntg 60
 caacgaccat caacattcaa tttcgagcgt gtcgatatat tacgcgactc aatcagacat 120
 cagagtaaaa agttattgtc gtttgaattt gcaacgacca tcaacattca atttcgagcg 180
 tctcgatata tgtcgcgact caatcagaca tccgagttaa aagtta 226

<210> 36593
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 36593

cattagccca cctcggcgaa aaaaaaacat gattcaccgg tattgacaga aaaaaatgct 60
 ggccttattc ggccaggaaa gatgaccgat cgagggtctaa aaaagaagca tgaccggatt 120
 acgccgatcg aacgtttcct aatagatatc ctccaagtat tattcagggg tcgaatggaa 180
 aaaacaatag ccgacatcgg tagttaaata gccgtgactg a 221

<210> 36594
 <211> 355
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36594

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 tcaatgaaca tattcagctg tatgggctca gagaatccat gagtaggaag ttttcgcagc 120
 aagctacaaa atctttctag ggctttactc anagatntat ctgggaactg gtgaaaggaa 180
 gagatgacag cctttccctc tgcagtcttg gactctgaga natatttctt cagaaacttt 240
 tccacaactt catcccaagt cctcaagcta ttacctttga atgaatgtag ccacctcttg 300
 gcttctccag atagtgaaaa tgaaaataag ttgatcctaa caacatcttc tggca 355

<210> 36595
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 36595

actaactcac ctotgaagag aactagactt actaccaccc ctataatact aactcacccc 60
 tgacaaaaca tgaaatacaa aaaagcctac tacaagacta ctaaatgccg aaaacaagct 120
 aaaccctata ctactaaatg gcaatacaag ccaacgaaga aaactatcta aattacaaag 180
 atagtgggtca attaccagg actcaaatta ctaagctaga aacctaggct tcttgattta 240
 cccattattg agtttaccat gcctgcggaa gatgctccaa ttttaactaca tcatacatct 300
 gatcatatat tat 313

<210> 36596
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36596

agcttcttat gcanagtata taaccaaaca acaatattgt cgtgtggaca cagaacaata 60
 agttgccaat gtgccttgaa gaacaaaaac attagtagtt acgcaattat aatgcanatn 120
 tttgaacatt gttcaacatc aatttcactt attgattcat ataagctcct aagtacactt 180
 ttcgttgtga ttccttgacc catgtntgaa tgtaatgttg acattcttgg catctatcct 240
 ttgtgttgtg tatagactga ggttcaagga aaccatacag tgatccataa cctaattctg 300
 tgttccaatc attcataana ctatttcana catttgacat aaattctggt aatgggtatat 360
 tgtaacgaac attaattatc agttaataaa tttagcacta ctaaccaaata tac 413

<210> 36597
 <211> 342
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36597

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 tcaatattgc ttgaatatat gcatntcag acgaactcgc taagcgcgcc tacgacgcta 120
 agcgagttca tcttttgtgg atgaacattc atctccctga tgagttgact gtggctaagc 180
 ggggctgatt cactaaggcc aggttaactta gtcaaatttt tgttgaacgc tgcgcgctaa 240
 gcccaaccta tctaggctaa gctcatttca ttgcggcagc cattgtgcta agcgagccta 300

gcttgctaag cccacatact tagtgaaatt tctaanattt at

342

<210> 36598
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36598

tgtttgatat gattgatggn gacccggngt tgagagaaac gaggatatgg gctacgtggg 60
agtacgtgag ctacgttggg ggtgggcaac aggggatggg gggtttatgc gcgcattgtg 120
gatgtggaaa gcttggtgtg caccatcgcc cgaccgccac ctagtacgac atgtgatggg 180
taccataa tctacaagc ttgagatgag gaagtgtga agggtgaaac ttctgtcttt 240
tattgttgac cacagagtgg tacctggaga tatgtcggg gggtcaggag acctgtgga 300
cgtcatgtgg ggtgctattg cccaatacca agcttgacct atcccgacc aaccgggca 360
tagtcagtca gtgagaacat gtgacgtacc taatc 395

<210> 36599
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36599

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tggtcccttt gttcctttcg caacttgagt tcactattgc taccatag agctccgca 120
aatttgttcc ggccatactc ttcttgcga gccctcttgg tctctgttc aagggtcttt 180
gcggtaattg cattctcttc ccgtaaccg gcacactcct tccgaacgtg tgtagcggcc 240
aacttgaact tctccttggc aagttttgcc ttcttaact cgcttttgag agcttgact 300
tcttctcct cttccggtgc ttcaaaactc tcttctga cgacttttaa cttggcgagc 360
caatctaaac ctcttatatg aac 383

<210> 36600
<211> 353
<212> DNA
<213> Glycine max

<400> 36600

gtgttgggtca aataaataacc actcgaatgt tgcttccaaa tccaagaatc tgctccatgt 60
 tgttgaattg atatcatgcc tatttcctat aggaattctg cagccattga agcttcacta 120
 tcgaataggt ttctcctcca attgaaattc cattcccacc ctctctcctt gtggcttccc 180
 atgagtctga tagtctgttg ttgttgggta gaaacttgat acagcgtagg aaatttgtac 240
 attaaagttc tgtccccccc tatccatttg tcatcccaaa atctgggtcat gtctccacaa 300
 tgcacctttc actctatatg atcctttatt tttatttact cctctatctg att 353

<210> 36601

<211> 351

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36601

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 attgcgtaca acaaatatgc aatttgatcc aacgtgtata ccatcttggg tggtaaaagt 120
 aggtaccttc tggaggttgg acaagcttcc gggtatgagg agcggccatt tccttcttca 180
 actgtgtcag tatgtcctcc atgggtgtact ctctttgcca atttgcaaga agaccaaatt 240
 tcttttggttc aacctatttc attcaagtct ataaatcttg tcacaaagat aattagttat 300
 taagccaata aaatagacta aattgtctca taatcatata catgagaagt g 351

<210> 36602

<211> 378

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36602

nattcttgac tttttcaaaa taaatnngaa agactcagct cgaatnggat tctgattatt 60
 tttgcgtgac cattattaag tcaaactcaa aatataatac tatggcttca agtttaatcc 120
 aaactatttt tctaaatcaa gagtaaataa ctatgattga gttaaagtga tatgcactga 180
 gcaacaaacc cattggccat cacctcttaa acacgaatta ttctttgttt tgataacaaa 240
 ccaacctctc ccaatgtctt ctgtactcat tattccaacc atgtatttaa gacaaaaacc 300

aacaggcaaaa aatatattaa attgaataaaa aattaaag agaagtccaa aagcttttta 360
ccctgtccaa cattgcaa 378

<210> 36603
<211> 338
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36603

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ctgttatggg aatgttgcca caatccttca naaccttatt gatacattct gagagggttg 120
ttgtcatgtg gccatatcga catccttctc tatcataagc catcgtccat gtttcctttg 180
aaattcgatc aatcatgtgg ctatggctgg actcagttca cgaaattttt ctaaattctg 240
atcanaaatg tgctcgcaag gagtgtacac tgcataaaaa tagttatgaa taacaanttt 300
atgtatatat gaaacttaga taaacgtcac catcaa 338

<210> 36604
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36604

anaaccgacg ccacccggag gcaggggtca tgtacacaca cccccacctc tcccagacac 60
ggaggagctg aaggcatcgc acaccgggac gaagacatgg acnatagctc tggcataagc 120
atatatatat aactcacgct atgtggccag tacctaccaa cggatactat atatgcagct 180
gcagttggat aatgaaccgc acttacttac tttatctgaa gatctcattg gcattagggg 240
acaatgccgt gtgactgatt gcctaccctt gccggtgcat tgtgctgaga tatcaccatc 300
tatatccatg attcattcat cagtgtata tgagctgtat aacgagccac tattgacata 360
aaattgaggt agcgtcgaac gagaggtata gtactccctt tatch 405

<210> 36605
<211> 240
<212> DNA
<213> Glycine max

<400> 36605

actaggatat atagtgacta ctcacaccaa tggatgtgcc atgatgacgc ccatctaatac 60
tatctaaata agcacctgac acaacctaac acccagacat ccagcccaat tattcaagtg 120
cagatgttct gactaccaca cacaatcaga ccctcagaat gggagacttg gccaaatctt 180
atttgtgaaa atatacgaacc tcttgctatc agagattgag ggactactca cacgctccat 240

<210> 36606

<211> 281

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36606

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ttgtagggtga aataattgga acaatggaat tgctaggcct aatccttatac ttcttagttt 120
aagtgtgaca ccctctacct caatatacat atgtatataa tatggtaagc acataacaca 180
ctgggtcgaag gggttcgactt gttatgatac cactaaatgt gacaccctct accccgatat 240
acgtattcat ataataataat acgtgagaat atggaattac a 281

<210> 36607

<211> 272

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36607

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gtgaaacact ggctaatacg gccggggccat accctatcca cccgaaatct tgacgacacg 120
ttcctcctcc ccggcatccc ggggttcatac cctaataccat acttgatgg atttccttg 180
atatacacca tgcggcatt cccgagcgag tccttgcccta gacccattcc gggctcanat 240
ccgttctga gcataacacg cgccaccatt at 272

<210> 36608

<211> 392

<212> DNA

<213> Glycine max

ccatttatct ntatgtgtgt ttaggaaat cttaaagggc ccatattcat gcggaaggg 180
 gttcaaaatg aaatgcacta ngaaggactc agacatatca acctctagtt tcttaagttg 240
 agctgaaata tctcgcatct tcatgatgta ctcacgcaca cctttcacac tggtagccg 300
 aagagaagaa aacttcatga tcaaggtgct tgctaaagtc ttatctgaag tgatgaactg 360
 gtcacatg gccttaagca agtctcggac cttttcatgc tgggtca 406

<210> 36611
 <211> 590
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36611

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 ngnncatnnn ccccnncn ngntgatgcc nnatnagnac cgcacnctgn anngcattgc 120
 anaggctttg attgttttat ggtnccttca cccgtatgaa nanggatncg gagggggggg 180
 tcttnaaaaa agagggaaga attaantcat tcctgctttg gacgaattga naaaacttgg 240
 ggccacattg aaagatgggt gaaggattga agggaaaacc ccgtgctgtg acttgcatc 300
 ctatacgacc aagtttccac caaccacaa tgctattact cagccaataa cgacccttct 360
 cattacctac caccagaca tccacaaagg ccatccctaa aatcaaccac aaagcctacc 420
 taccgcactt ncaatgacaa acaccacctt tagcataaac caaaacacca accaagaaat 480
 gaatnttgca gtgaanaagc ctatagaatt caccccaatt ccagtgtcct atgctaantc 540
 tgctccatat ctacttgata attcaatggt agccataacc ccagccacgg 590

<210> 36612
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36612

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 cacagatgat tatgtctacca caganaaaga aatgttgga attgtctatg cacttgaaaa 120
 gtttaaactc tatttggtag gctcaagagt tatcatctac actgatcatg cagctattaa 180

atacttgctc aacaaggcta attccaaacc aagattgata agatggatnn ttttgttgca 240
 agaatttgat ttggtgattc gcgataaaaa gggatcagag aatgttgtag ctgatcatct 300
 gtcaagatta gtgaatgagg aagttacagc anaagaagtt gaagtgagag atcaattccc 360
 tgatgaatca cntattttaa taagtgaaag accctggg 398

<210> 36613
 <211> 691
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36613

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 ctnnngcgnag nancnagcga nnnnnnnana nnnngncnag nangcatgtc nancannnna 120
 ngttttataa ttctncncca tcacaangaa acnacnaagg ggggttgata agagacgaan 180
 agngggcacac acaacacacn cccaacanaa cacnaaaaca cannnncaaa cccacacacc 240
 acacggaagc acaaacaan gacacgagcc acacgacacg acgacaacga aagcacaacc 300
 agaccgcnga agccagaaag acaacacaaa gnggcnccaa nacaagcac aagcacaag 360
 cagccccccc agacanngca acacnaaaac ncacaaacga ngccanagac gcacacanca 420
 aaaacgcaac cgagaacngc agcgccacaa cacagngagc aggagngcga ggacaaacaa 480
 cacacgcacc cgacaaaccc canagaaaga gaacatcacc aagcgcacac cagcaacaca 540
 gaacagcgac agccgacaaa acaacgacgc cacacgacgc acaancggac acccaaaacg 600
 gatacgaccc gacaacaanc acacacgcga agcgacacaaa caacaggacn agcgccaacn 660
 gaagaacaaa anangagccg cnananacac c 691

<210> 36614
 <211> 498
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36614

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 gactgggaca tatcgagtga gaagnnatat tatgttttaa cattatcgag agcttcatt 120

gctaaccgtg tatcgggctc tattattatg accctggaac gaaccattat gtcttatatt 180
atcatcatat gattaaacaa agatcaatca tggtagatga ctaagcggct ctatatgata 240
tgactatac acggacctcg gtgcgagaag ggatgacatt ttgcattgaa tatcagcaca 300
atgagtacaa atgtatgctg gcgacatatt agtcgcgact ttggacttcc gtggaagcca 360
gtggggagaa taatatggat tagatctaga actgacatat gtcaagcagc tagtttatgt 420
gaacataaac tgccatccag ggggagatat ggacataaat gatgatcact agaaagatat 480
tgaagtgctc tgattaag 498

<210> 36615
<211> 370
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36615

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ggggtagtgc caatttagaa aatccctcat tgaatttgct ataatagcca gccaacccca 120
agaaactttg aacttctgtt ggagttgtcg gttgttgcca ctcttaacc gactccactt 180
taattggatc cacagcaacc ccatctttag aaatcacgtg ccctaagaac tgcactttct 240
ctaaccacaaa ttcacatttc gacaatttgg cgaacaattt cctatccctc angatatgca 300
acacatttct caagtgcctt tcatgctcct ncttattcct tgaatacact atgatatcat 360
caatgaacac 370

<210> 36616
<211> 388
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36616

catccaatac cctgatgagg atgtcccata tgttcttatt attattattg gtccattngc 60
ttccaaagtg tcatggcctt gcangtgaag accgcacaa acatctaana gaattccata 120
ttgtctgctc caccatgana ccaccagatg tccaggagga tcacatattt ctgaaggcct 180
ttccttattc tttagaggga gtggcaaaag actggctata ttaccttgct ccaagggtcca 240

tcacgagctt ggatgacctc aagagagtat tattagaaaa aattttccct acttccagga 300
ccacagccat cagaaaggat atttcatgca ttatgcaact aagtggagag agcctatatg 360
aatactgnga gaatatttaa aaactatg 388

<210> 36617
<211> 348
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36617

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gncacgaaat tgaagggata naagaggtat agaagtggaa ctttgaagta tgtctcacia 120
gactctcttt catcanagtt acaacaagtg ttacacatgc ttctatttat agactaggtta 180
gcttccttga gaagctntct tgagaaagct tctttgagaa aacttccttg agaagctaga 240
gcttagctac acacaccctt ctcataacta agctcacctc cttgagaagc ttccttaaga 300
agattcctaa agaagctaga gcttagctac acatacctct ctaatagc 348

<210> 36618
<211> 393
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36618

gctggctatt ataganagtt cattgaaggg attttctata ttggcattgc ccctaactaa 60
gtggactcgt aagaatgaga agttcttctg gaatgagaag tgtgatcaaa gtttccaaga 120
gttgaagagg cggttgacga cagctccagt gttaattttg cccgacccta agagaacatt 180
cgaagtgtat tgcgatgcaa gcgggcaagg cttgggggtgt gtgttgatgc aagaggggaag 240
agtagtggct tatgcttcgc gtcaattacg tcctcatgaa tntaactatc cgactcatga 300
cttggaacta gcagcgggtg tctttgcctt aaagatttgg aggcattatt tgtacggtac 360
ttcgtttgaa gtttcagtga tcacaagagt ctc 393

<210> 36619
<211> 269

<210> 36622
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36622

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 ctgtttcttcc ttcccgcgat gcttcttttc atgtccgcct gagtgggctt atagcctaaa 120
 ccatacttcc cacgatttcc ttgggttttt atcaggctag ttatgccgcc gttgtctttg 180
 cctaaaccca tcccggttcc ataaccgttc cccaacataa ctcgggccat cattaccgct 240
 gcacgggaca gacaagggtt cccaaagagg gaggccacgg aggaaatgtt gaccacctca 300
 aaagactgga nagcggttcc taacgattct tctgcggtt ccacataaag catggaggat 360
 gggcagctta ccaagatatc ttctcacct gacacgatga cctagtgcc ctccactatg 420
 aatttc 426

<210> 36623
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 36623

gaaaaccgcc gggatcgaat gacgcgtct tttactcatt tccaatacgg cttgaacaat 60
 tcttcaacta tcaactaaact aatgcctctc aggggactgg cagtagctta atccactgga 120
 aaagcccttg taaagacaag gggacgcaat aagactcacc tgatatcaga gtaggaaaaa 180
 attgaaaggg aaaaaccgtc ttataatgag gaactgcgtc tattgggatt gtacggtgac 240
 accctgaata tgactctgaa tatgactaca ataggcctaa atatg 285

<210> 36624
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 36624

caccaatggg ggatgaacat aaagatttag ctttgtgttg gagacgcaca gagagctgtc 60
 tgatatttct gctctgagtg aagagagaca ctacagcttt ctggttttac atagaggcgc 120

ctctcttttt ctattatttt atttaagcta tgccacatgt ccctcattga gtggagcaca 180
 ctgggcccac tttctctttt gattgtgact catactcage cccaagcagt gacaaaaacc 240
 tgaccttcga aacgcttaaa tcctgactcc gcttgctagc catttctctg gatctccgtc 300
 cttt 304

<210> 36625
 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36625

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 acaaagtact ttcgacacct actgtacgtt gatttgacca atgctgttat gggaatgttg 120
 caacaatcct tcaaaacctt attgatacat tttgagaggt tggttgtcat gtggccatat 180
 cgacgtcctt ctctatcata agccatcgtc catttttcct ttgaaatgcg atcaatccat 240
 gttgctgtgg ctggacttag ttgacgaaat ttttctaaat tttggtaaaa aaatgtgctt 300
 gcaaggagtg tatgctgcat aaaatgagtt atgaataaca attttaagta tatattaaat 360
 aaacgtgacc atcanatatg aaatc 385

<210> 36626
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36626

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 agagcatagt gtttttggan aatgtcgctg atgttcggaa tgatttgaac gagagattct 120
 ctcaaggaga ccttatcaga atttctgaac ttcaacaaga gatatatggc ctcaggcaag 180
 gttcctttctc tgtcactgaa ttttattctg agttaaaaat actttgggaa gaactttaaa 240
 catatatgcg tattccatgt tgttcctgta ccattaaatg cacctgtgct gcaatgagaa 300
 atgccagaca ttntcatact cttaattatg ctataagaat tttgactggg tngaattgaca 360
 atttttcagt agtgaaatct cagatcctna ctatggatcc actgcctagt atgaacacaa 420

tttttc

426

<210> 36627
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36627

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ggatggcgcc tctcttcacc tctnttcctt tgtcttccgc tgcattctca tgggtggaaaa 120
tcatcattaa aggatctcat tgaagctcac agatccagcc tccatagaag cccacaagc 180
aagcttccat caacttctat ccatttctct ctattaatat ttggttgaag atattggaat 240
ctgatttcat catcttcagt ctaacaattc atatactcta atccgtctat ctctgcaatc 300
taattgcaac aagtctctgt tgcaaatgta atgggtctct tgctggtttg tgttgatata 360
atttgcaca ttaccacgta cttcatgtga tatg 394

<210> 36628
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36628

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aggatggcgc ctcctctcac ctcttttctt ttgtcttccg ctgcatctcc atgggtggaaa 120
atcaccatta aaggacccca ttgaagctca nagatccagc ctccatagaa gcccacaag 180
caagcttcca tcaagtggta atcagagcac aagagcttca agtaggtgct ccttaaacct 240
ccattaattt tttgctttac cttctcttcc attggtgntt cttcatntt tctccatgta 300
tctctcaca tgtcttgtgc tanatgtnt taacatgatt ctttagagtt tccaccgatt 360
aaacttgcta tagaagctag atntgatttt ctatgggtca aatttcttgt tcttgttctt 420
gaaccatgaa ttatgttgag ttt 443

<210> 36629
<211> 392

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36629

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gcacganatt gaaggaagaa aaaggagag aagttgaact ttgagttgtg tctcacaaaa 120
ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag agtaggtagc 180
ttccttgaga agctctctta agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctnt cttaagataa cttccttgag aagcttcttt gagataactt cttgagaag 300
ctatagctta gctacacaca ccctctaata aactaagctc acctccttga gaagattcct 360
aaataagtta gagcttagct acacacaccc tt 392

<210> 36630
<211> 246
<212> DNA
<213> Glycine max

<400> 36630

agtcgtaaga atcaaagaga cgttcgatct ggagtcgaca tccgtgtgag gactcatgag 60
aagactcgtg atattcgaga gcatcaagac cagcatgaag acaagtataa gccgatttgc 120
tgcagaactg atcgaatagc agaatttgct cagctgaatt gctgaggag gagcctttta 180
tgcgagtctt tactctctga gaatcaatta ccatgacgca gcattcgatt accagaagcc 240
caaaac 246

<210> 36631
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36631

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atcanaagtc ctcacccgct gatgttttta acaaaaaaag gggggacaaa cnctgnaatt 120
tcanatagat tgattanacg tcanacggct ccattgctgt cactccanaa tggtaagtg 180
actaaatcaa acagaacata cactctgagg gagttctcgg agagatttgc aaaagatagg 240

ataaggttgc atgaattatc acctttttca naaggacagt caatctgtgt tttccaaaaa 300
gattaaatca naatcaaaat cacaaaatag ggaaagaatg tcatgaacat tgtacaactn 360
tccattgcat tgcattgttt catatgaggt cagcgttacc aagtttcaca a 411

<210> 36632
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36632

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gcgagccctc ttggtttctt gttcaagggc tcttgcggtg gctgcatttt cttctcgtaa 120
cccagcacac tctttccgga cgtctgtagc gaccaacttg aatttttctt tggcaagtct 180
cgcttttcct agtttgattt ttagagctcg gactttctca tcctctttcg gagcatcgaa 240
gttctcttcg ttgataatct ttaacttgga gagccaatct aaccctcgtg tatgaacttt 300
cagccattca tgataaccac caatgatgcc attacgaatg ccccttagtt ctttaacttt 360
ccttaacgag ctntcccacg ccttatggac tctatgtata atcttgaaac tttgcgcgcc 420
gaaatctctc ac 432

<210> 36633
<211> 263
<212> DNA
<213> Glycine max

<400> 36633

cactgaccgg gaccttaagc gactgcattt tgctttatth gaagtgaact ctctaaaatt 60
cactttacaa agacactgtc ttttaatttt gacaagaatg ttcataaaat cactcctatg 120
tggaggatca ctaattcaca cataatcact tagttatatg gtgtcttggt actatactac 180
tatcgacttc tttatatatt tctttcaact aagaattaaa aaaaacctgc tttcctcaaa 240
gctggctttg cattaaagga aaa 263

<210> 36634
<211> 443
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36634

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cttaactacg tattctttta agacccana tgtagcttan attatttaaat taaggcatta 60
ttgagtgcc tagtttgaaa cttctaactt taattaatcg agacattggt aaggttactt 120
agaaaaaana ttaagtgttt caatcaagca gtattcagtt aagattggat cgatctgata 180
tagaaaggaa aggttaggaa tntgtctaag tatttgtgga aatttttgaa gaaaaattcg 240
attacgaaaa cgaagattat gtccaatgta gccatttttc ctcgattgca aaatggtatt 300
atacctcatt attacctctc taatgcaatn nttntatatt cttgtcaatt gtcttcacat 360
tttaatttac tcgctttctt tttatatntc caacacattt attcttttct tttcgactta 420
tattccatgg cactttaaat tac 443

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<210> 36635

<211> 429

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36635

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ttntnnntgt ttgaaaaact tacataatta gcataaatat ttttgaaaca atttttaatt 120
aaaaaaaccg tctttcataa aacacacaaa cagtaggcac taaaaccttc ccaaagtcta 180
agacaacaaa ggctacatta caaacaaggt ccagtctaga gcaacacatt cacttgaagc 240
aagttccaaa gtacctcatt agaacagaag cagcgataaa catgaccgga ttggtgtagg 300
ttctccgcat attgtttgta taaagaattc ctctcagact gcctataatg accataatcc 360
cctccaacac cangccctaa canattcatc acaaccaca aaaatacaca ctttaaccata 420
aacaaaaat 429

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<210> 36636

<211> 424

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36636

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agagaatatg gaagacatag agaaacatca gattgagatg gatgaggag aattcagtga 120
tggaatccct tataagccta gtttgatgga tcatcagagt actaataacc aacaatctga 180
ggactttctt gctgagttgg gagaaataga agctgaccct ntggaccttt tggtcacaca 240
aggttttggg ggtgctgatg atcaaagga atccaaggcc ttggatccat ttcattcttt 300
tgactgggtca ggatacaaca acaacaacaa caacacaagt agttcatttg aagaacctaa 360
caataagaga aggttataac aagaccctag aaaaaaatgc atgcatcagc accttcctca 420
caaa 424

<210> 36637
<211> 466
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36637

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attcattgat aataaaagcg ttggattctg catgaccaac acantttttt tcccagaaat 120
ttaaggtatt tctcagttga gattcaagaa ctacactatc aagatattga gattatgtaa 180
gaagtttatc tctcagttta tagatgtttt tttcatacac atacaanaaa agaaacatca 240
nagttaaaat tnttaatacc aatccttatg ggattntatc taattcaaaa naacctatga 300
gaatcttggt acaaataattt tttacaatnn taatttacca atatatnttt aaatatatta 360
tatattaatc tattaattgt attttaatga aatagtctga ttcaatcgac aaaccttttc 420
aagttcagtt caattgaacc aacgggtctt cagttcagtt tcattc 466

<210> 36638
<211> 304
<212> DNA
<213> Glycine max
<400> 36638

gatgggtgtg tgtactaagc tctacttttc aacggaagtt tcgcaaagaa cttctcaaga 60
aagtttctca tgaaacctat caagaagcta tctagtctat aatagaacat gcataacact 120

tgttgaactt tgtgaatgaa agcttatgag atcacttaaa gttcccttct ctcctcttta 180
 ttccttcatt tgtgctccct ctctctcttc ttgocctccat taagctcctc ttaagctttt 240
 tccatggaat ttggtgggaa ctcttttctt gctattccta tgatggctct cccttccttt 300
 tctt 304

<210> 36639
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36639

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 catcaaatag tgcacttaat gcatgtgaaa ttataaaact acccctaata caaaactacc 120
 ccaaaaataa tgaaacccta atctaatatg tacaaagata agtgggctca tacttagccc 180
 atggggccaaa attctaccct aaggccttct tcagcagctc tagcccaata ttcttgagat 240
 cttctatcca atacccttgg agggtaggat tacatcatat gtggatatta ttcttgatag 300
 tttaatttgc caatgatgga caaagtcttc caaaggggac tcaantttgc ctgatagatt 360
 gaatcanata gattcaaatg tcatgatag 389

<210> 36640
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36640

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 taaaaagtta tcgtcgtatg aattggctta aagcttaaac attcaaattt gagcgtctcg 120
 ttatattaca ggactcaatc agacatccga gtaaaaagt attgttcttt gaattggctc 180
 agaggttcaa cattcaattt tgagcgtctc gatattattac gggactcaat cagacatccg 240
 agtaaaaagt tattgtcgtt tgaattggct cagagcttca acattcaatt tcgagcgtct 300
 caatatatta cgggactcaa tcagacatcc gagtaaaaag tta 343

<210> 36641

<211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36641

agatactcag cttgagccat tctaanataa taacttntac tcggatgtct ttattgattc 60
 ccgtaataata tcgacacgct cgaaattgaa tgttgaagct ctgagccaat tcanacaaca 120
 ataacttttt actcggatgt ccgattcagt gacgtaatat atcggggacgc tcaaaattga 180
 atgttgaacc tctgagccaa ttcaaagcgc aataactntt tactcggatg tctgattgag 240
 tcccgtaata tatcgagacg ctcgaaattg aatgtggaac ctctgagcca attcaaagcg 300
 caataacttt ttactcggat gtctgattga gtcccgtaat atatcgagac gctcaaagtt 360
 gaatgttgaa gctctaagcc aattcatagc acaataactt tttactcgga tgtctgattg 420
 agtcccgaat ataacg 436

<210> 36642
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36642

agctntgtgt tcttaccoga agatcatctg tcctcctctg ttgaaatact ctgtatgcga 60
 gaatgtcctt tgctggaagc aagatatcaa attcagaatg ggagatattg gtctaggatt 120
 gctcacattc cagctatcca gataaatgaa aaagtataaa tatgagttgt tgcataaata 180
 agagtcatct aaagataaat aaataaaggc tttaaattatt ttgaaaaagt atgatgttaa 240
 tgttataaca tttttatttt tatttcttgc actcccaaga gaacaaattt gcgtttcaaa 300
 cttcaagttg actacataaa tagttgtcca tggatggtac atctgt 346

<210> 36643
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36643

tatntanatg cattagttgt gttgagatcc ttccttattt gttgatgttc taaaaaattt 60

<212> DNA
<213> Glycine max

<400> 36648

gataggtaca tccaaactcg ggaactctat aatctcaagc cccgcgatat actcccaaac 60
actaaattat atccatgagg gtgcaaaaaa aagatcgggc tccgatgata tccctacagc 120
ccagcagaga gctaggctcc aactgagcga tcagcatttc aaggagaaga ctgcgccaga 180
agcgtgcata taaagaa 197

<210> 36649
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36649

acatctatcc tgtgtttcag atattngaac gggctatccg caacaaataa atacgtaaca 60
agtcaattca agaaattggg agaagagatc ctgtctcaat ttaactagtt catgtcaatt 120
tgattgctaa ccttcattga agttaacttg ttcaatgctt ccagctacac cataaccctg 180
gattacattc acatctttta caaactgagg tgagagcttt ggaagcaaatt ttctggagtc 240
tacaatcaca gccttgaaca tgcgtgatgg ggc 273

<210> 36650
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36650

agtcttggtt attatgtgtt gtcccatcac atgtgggtact aggtggcggg cgggcgatgg 60
tgcacaacaa gttntccaca tccacaaatc gcgcataaac ccaccatccc ctgttgccca 120
cctccaactg agctcacgta ctcccacgta gcccatatcc tcgtttctct caacaccggg 180
tccccatcaa tcttcccaag cttccccaac atccaagtaa tacaacattc aaacagcaca 240
aactatcaca gccaaagataa cagggcatat gcagaaaact ctgccccaaa caccaaccaa 300
aatcacagct gttctcactt aaagacccca gtaacaattc cttcgttcca gttcgttaac 360
cgttggtatcg actcgacaat tntactgcaa gtctctatac ata 403

<210> 36651
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36651

ccttagatac tcagcttata gcgcgtctgg gaacgaagtc aatgtgtcct tatattatga 60
 tgatgttccg agtacattgg atttggtacg accatgccct cctgatttcc acctggggaa 120
 ttggcgagtg gaggaacgcc ccggcattta cgcaacgagc ataatgtaaa cctttatggg 180
 tntaaaagct ctatagttgg gcctaggctn tagagttttt ccttttgtta aagctntgtg 240
 tcttttgttt ttgaatttat aatacaagga tctttcttca tctattccta cgtctctacc 300
 cattctcatt catttgcatg tntacttctt tatttctgaa acggcagatc cgatgacgag 360
 tccccgaag gtactaatac ctgngacccg cttatcaact tcgagcaaga aatgaatc 418

<210> 36652
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 36652

gcctacagtt aatgtcaatc cagccactgg gagaggatca acccctcata aagagaagta 60
 tcatagttat ctgggagttg tagcacgaga gataattcct attgtccact ccaattggaa 120
 tgttgtacca gaaactttaa agaatcttat atgggatgac atttttgtaa gtccttattt 180
 aagttgacat ttgtatatga tgtcatataa taattgcaaa aatattatat ttgactaatt 240
 gttactgaac aattttgttt tggagggcaa atttgacatc cccgatgggtg gcaatgctga 300
 aaagaagggtg atgtcaatgg tcgctactcc atg 333

<210> 36653
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36653

tgagattggt gacgattatn ccttnctcat tataagggat attttatatn actnggntga 60

<210> 36656
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36656

ttctntaaat gtgatgtaag ttttgatctc ctactcacia gcaaaagaga catagaggaa 60
 ggaagaacaa taaaagaaag acataaggaa tagagggagg ctcttgacg tttatatcca 120
 cccctctttt attaaatagt tttgttggtt acaccaggtt cctctaaaca cctccccttc 180
 tatatccaaa gtttacaaat aaggtccaac actttcacia cctacacttt aagccctaca 240
 actttatgaa aactatcaac aatactatgg caattaataa aaacataacg atttttaatt 300
 aataattttc atatcaaata gcataattta aatttagttc tctcttgagg tgtttatcaa 360
 gcacttagca cacattatg 379

<210> 36657
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36657

tgaagatggt gtgctcanag tctctggatg atacncttcn tttagacttt ggagtaaacc 60
 ttgggttctaa gatgtggcaa cataagtgtt atcaatctaa caaaaaatcc tatcatgcat 120
 tctacgacta aacacataga aataatgcat ctttttctta gagatcatgt gttaaaaggt 180
 gactgctaca ttgagttcat agatagtgag cattaacttg cagacatttt cactanacca 240
 cttgctagag ataggttctt tntcattaca aatgatatag gcatattaga tgcacccaac 300
 ataaaataac ttcctatttg cataatgtgt gatgcacatn gctatttgag acgatgacta 360
 atttattctg gagtctctac tttaatcaat caccaagtag tttaatcgat tacttctctc 420
 tcgctaaagt gtcagaagta acaagacact t 451

<210> 36658
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 36658

agcttctact acatcagcca gggcanaggc actntccaaa cctgaatcta cagaagatag 60
aacctanata agaagccaag canggccttt tggtagaaaa aaggtatgta agggttctgg 120
gtctattata acananaagg gggagaacgg attttgtgat gtgtctatcc cacaacctgg 180
tgaaatgtaa gaccacctac ataacctagc ccaaaagagt gtaagcgagg gattaataaac 240
ctagttgatc acttataaag tcaagtagaa aatattattc tattttgatt cccaacatgc 300
aaaagtacaa aaccaattaa catagaaatt agagtgaagt ggatggaacc tgatgatc 358

<210> 36659
<211> 273
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36659

tgacatgatc tctaataatc agccctttgt catctcgaag ttggttgata atgcaaactn 60
tctcacttgg tcctggctga aagggtgaga aaaggatttt aatgttctt tccaccaatg 120
gttctcaact atgtctatgg ccgttaccta gtgtgtggta tgtagggttg ggctttgcgg 180
ctatcatatt taagataatt tctaattgat taatattaca tataaattga attattttac 240
aatgaatact ttctggcaca ctttcttaca ata 273

<210> 36660
<211> 495
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36660

accccgcccg caaagattca cgcccgaaat tntgatnccc nantnncccg cgccagcgtg 60
gctgatgcac cgaaaacacc gaccgggacc cgagancacc gcagcagcaa caaggagtcn 120
actttattta gccaaaccgg aacaggagga gggggcgcac gccaccaaga aaatagcgcg 180
aaggaccgca caaggcgcca ataatccgca agggacgcat acccgtgaca gccatataaa 240
cacagaagac aacggcataa ctaaaccgacc aggcaacaaa aggggaccca atcggggaagc 300

catagaaaga tagtcaaagg acaggagagg tgcttccaga ncagtntttg taaatggaaa 360
 ttatgataaa aagatgcatt cactaatcaa ttgaatgacc aacattacgg gccctctat 420
 atcattaata agagataata tggacaaaat ta 452

<210> 36663
 <211> 181
 <212> DNA
 <213> Glycine max

<400> 36663

aaggtgcata tccttagagt gataacatga cattggggct gctaccata atgaaccttc 60
 tcattcaaat aatgactgac acatcttttag aggctgggtga tactactaat acccgtaag 120
 acataaagag aagcttaggt gcattacact ctatagagcc aacattctt ggcctacgat 180
 c 181

<210> 36664
 <211> 279
 <212> DNA
 <213> Glycine max

<400> 36664

acctctctaa tagctaagct cacctccttg agatgagaag ctagagctta gctacacacc 60
 ccctataata gctaagctca ccccatgac aaaaaagcat gaaaataaca agaaaagttc 120
 ttattacaaa gacaactcag aatgccccga aatacaaggc taagacccta tactactaga 180
 atggccaaaa tacaaggcct agacaaagga aaaacctatt ctaatatatta caaagataag 240
 cgggctcata cttagcccat gggctcgaaa tctaaccta 279

<210> 36665
 <211> 444
 <212> DNA
 <213> Glycine max

<400> 36665

tatcttgggt tattggatgt acttctattc gtaatttaat gattattgat aatttattac 60
 atatctttta ttcttttttg tagtgatcga ttattattaa actttttgct caatccacta 120
 atagaaacta atttcaactgg tgggttattat taatatgatg aaattttaca tcattattta 180

aaagtactga ttcatttcta gtttggtttt aagtttaata aaattaattt tcttccttcg 240
 acaaaaataaa attaatcttt tcgtaacttt aatataaatt attaaaatgt gtgttaaatt 300
 atttttataa gatctatatg acacattctc tatataattc ttaccgttta ttccatcttt 360
 tgtaattaga attagaagtt cacatgtgat aatcacataa ccgttaaagt ccgacataac 420
 tgatagtaat atgtaaagaa attt 444

<210> 36666
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36666

tggtatctag atatctagaa cccnngcann cnactggacc cgggacctta atcgaccgca 60
 gctgcttctn actatgatta agacacaacg aactgggtcg ctggattaaa atcgtggccc 120
 gtcacatctc gaacatatga aaatctcaa cgccttatg tgtgcatgta aggacactca 180
 acgaaggatt gtctgcgtaa taagagttag tgcaagaact tctaagcata aatctgttag 240
 aactgtgttg ctggcactat gaaatgctgc atacatatct gcgctaggaa acatcaatgt 300
 gactctacat gcggaagaca actcatgatt attggatacg ggattttcat gtgctcatct 360
 gccatgacat acattttata atgagaggca ctttgacact tcttgaaggt tatctgccat 420
 gggaatatcc tccttgaaat cttgtggttg accttcaatc acatgtcgac ggatttcgctc 480
 aat 483

<210> 36667
 <211> 327
 <212> DNA
 <213> Glycine max

<400> 36667

tttcttcact tatgtttgta tggctagaaa caagcaccta ggcagtggta caagaagttt 60
 aatgagttta tgagcaactc aagattcaaa agatgtgaca tgggccattg ctgctatgtt 120
 aaaaaatata ctaatagtta tgttatcctt gttgcgtatg tcgatgacat gttgattgca 180
 ggatctatta tgatagaaat taatatgttg aatcagcagt tggcagaaaa ctttgaaatg 240
 aaggatcttg ctcccgctaa acaaaatctt ggtatgagaa ttcttacata cagatcataa 300

taccaacaa gctctctcac gcgctgaaaa gccatcaatc tgtcacgaca aagaacaata 360
 taacaacatt ttgcaataga gaagaccagc ggaccgaaga gttaagaata ctgcgaaaa 420
 aaccaccgag agaggtcggt aaaaaagtga tacttgctaa aaaaaaatga ggtggaagct 480
 caagcccctc ttgctgggaa acacacatat cgtatagaac aataccggaa acaacgacac 540
 tgaaagagaa gccgcgtatc gatatccagt gagan 575

<210> 36673
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36673

agcttcaaga ttcaatntct agcgtctcga tatgttacgg gactcaatca gacatccgag 60
 aaaaaagtta ttgtcatttg aatntgctca gaggttcaac attcaatttc gagcgtctcg 120
 atatgttacg ggactcaatc agacatccga gtaaaaagt atggtcgttt gtattggctc 180
 acagcttcaa cattcaattt cgagcgtctc gatatgttac gggactcaat cagacatccg 240
 agtaaaaagt tatggtcggt tgtattggct cagagctgca actttcaatt tcaagcgtct 300
 cgatatgtta cgggactcaa tcagacatcc gagaaaaaat tattgtcggt tgattggctc 360
 agagcttcac attcaatttc gtgcgtctcg atatgttacg ggactcaatc agacatccga 420
 gattaaaagt attgtcggtt gaactgctc 449

<210> 36674
 <211> 264
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36674

ggggacgtca ggtggggtgc tatntccac aaccaagctt gaccaatccc gacccaactc 60
 gggcatagtc agtcagttag aacctgtgat gtacctaaac aggcaagctc ctggcagcaa 120
 cagataagag gaacaaagac cacacagcaa tgaagcttgt gtgggtggctg gccagctgtg 180
 aaacttgatt gatatatggg atgtggcctc ttgtcatcga ttaccacagg tgggtaatca 240
 ttacaaggct ttaaagtgaac acat 264

<210> 36675
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 36675

ctgagaaaac tggccacact cagacttgca catgtgcatg cttcagataa cctgacgttg 60
 agagataata cactacttca cagggaagaa tttccgcaca tgatataacg gagtaaagat 120
 atcggagagt tgttttgcta ttctacaagg acggcctgct gcttgaaaca ggataactct 180
 cgttttacta t 191

<210> 36676
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36676

agcttcctat atctataacg gngcanacaa gggcaccaag aagagcaaga agaagaaccc 60
 tacaagccat cttgtggtag aaaaaccaag taattaactt ggacaagatg gctattgatg 120
 aagactaaga gaaggaaagt agggtttata tatgcaaagg gcaaagggta cgtaaggggtt 180
 aaaacaacta agagctacta aattattatg atgtatacga acatatgctt taaattggat 240
 catcttctta accatgcaaa cgcgttgggg tacataaatg cttccaactg cctctatttg 300
 acaaaagaga aatacctcaa ccaactcatat atctctaggg acccactatt cggttatc 358

<210> 36677
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 36677

ttcttcttat ccaaagctca tcttggagga gaagctcctt cttccatggc ttattcccta 60
 atggatggtg cctcctctca cctcttctcc tttgtcttct gctgcatctc catggtggaa 120
 aaccaccatt agaggacctc attgaagctc aaagatccat cctccataga agctccacaa 180
 gcaagcttcc atcatcctct taatcaccca tcgtcataga tttggatatg gtgcgataag 240
 gatgccttgc ggcgcgtcta gttatggcat ttttctaaa ataccacacg tgaggagtac 300

gtaaaaataa tgaatgcatg ctagagataa aatgtgggag tgatttgatt ctcaactga 358

<210> 36678
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36678

tgcttgtatt attatgngt acccatcaca tgtggcacta ggtggcggtc gggcgatggt 60
gcacaacaag ttnttcacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120
ctccaactga gtcacgtac tcccacgtag cccatattcct cgtttctctc aacaccgggt 180
ccccatcaat cctcccaagc ttccacaaca tccgagcaaa acaacattca aacagcacia 240
gctatcacag gcaagcaaaa cagagcacag gcagaaaact ttgccaaaac accaaccaaa 300
tcacaacttt tctcacttaa agaccccagt aacaattcct tcgatccaat tcgttaacct 360
gtggatcgac tccaatatgt tactggaagt ctatagtaca tgaacctac 409

<210> 36679
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36679

ttgcttatnt ttctagnnc gctcaataat catgttccta tctgtggaat tctgcatatc 60
tctatgacaa gctgggtggtt gaaagccttg cttgccactt gtgttcatgt gattaaattc 120
tttgaacaa acacaatttt gaataaccat tgtgagcttg tcaattgatg acaagtgaac 180
tggtctttct ttgcttgagg acaagcaaaa ctgtgaatat gggggagttg tcagtcgtca 240
tttacgacta acttctgtat tgaaaagcag tatgaaattc gtcttttctc caatttatag 300
ttctttatgt aagtttgtac atatttttag gtttagttta attttgctca gt 352

<210> 36680
<211> 244
<212> DNA
<213> Glycine max

<400> 36680

atcaaagctc actcgtgagt ggtatggatg aattggtcta gcctttgtaa ttgcatatTT 60
 tctgtgaatt tagtcatgtg attttaaaat gagagtgacc tgagttgtgt ttatgacgtg 120
 tcttaaattg tgtaaggTga agtaaattgc agtccatttg aacagttagt taaatgagtg 180
 agtcaaatga gcgacttgaa atgatattgg atttctagtc tgtcaaccac actgggcatt 240
 tact 244

<210> 36681
 <211> 344
 <212> DNA
 <213> Glycine max
 <400> 36681

agctttatTT catgaattaa gcagccatag atctgtatcg aaactagtat cccaaccact 60
 aaaattctat aaaccaatcc ccccttgaat gtagaacca accctgatgt tgctagacca 120
 agagtggaaa ggaatgtcaa accttttttTc catatgttta agccatgtct agcagaaaaa 180
 tatcgcatca tccatcaatt tttgaccgtt gaagctcttg tttgagaaga ctatcctgtt 240
 ccaatggTac catatacact agatcagaaa aaaatcacca agtttgccat cactatatTc 300
 tgataccatt gagatagaat ataagtgtcg aatgaagtgt tttc 344

<210> 36682
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36682

tcacccaac cggggTccat tcccccccc ccccggtgct gacccaacac anaganngag 60
 gagaaaaggc gagatnngta tagaaaaagg aaggagaagg gaaagcgcaa aaggaagggg 120
 aagaaaaaaa aaaaaaacga aggaaaaaaa aagaaaaggg gaaagagaaa aaaagggaca 180
 gaggaaaaga gaaaaagaag aaggagaacc gaaaaaacgc ggaaaccgca cgaaaccgaa 240
 cacaaccacc aaagagagcc gacaagagac aaacaaaaaa cccccaacc gaccaac 297

<210> 36683
 <211> 589
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36683

aatacccgga cgagactgac attgacatgc gagcacgacc acantgcact nacnnncccc 60

ccnnnnnnnn nnnaagggat gagcatgatg ccttcgcann ccnacnnann ncnagnagan 120

nccgagagan gacngcangc agcaagcgca ggggtgaccna ngatgcncan nggaagaaaa 180

cacaaacggc accgaggaag aggnngcgaag ccaccccccc cccacannag ccnangaaaa 240

ggccagaggg gccgagggga agacgnncaa canccacccg caagaagccg ncacnaaaac 300

cagggagaac aaagagaagg agaacaacaa ncaaggcaac gcacangngg aacgcgccac 360

gacaaaaacg gaacagaaaa gagaccggcg ncancgaacg ggagacacaa cgggaagaga 420

ncaaaccgaa ggaagaaagc aagcaaagac ccaaaggggc aanaccggcc angcaggcag 480

caacaccagg aaccaaccac gagggacggg naccagccg aaagcaagnc cgaccgagcg 540

ncgaagcgga acacacacaa ccaagggaaa acgaagcgca accgacccg 589

<210> 36684

<211> 323

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36684

agctgtcact atatgcttac ttgtgtggga gccttcgggc ctaatttgaa gcctgtttct 60

tatcatgaga taagagtgcc acttcttacc aaggaattag agaatacaga aattctgttg 120

aaagaccata aagagcaatg gggaagattn gcatgttcat ttatgtctga tgcattggaca 180

gacagcaaac agagatgtat catttacttc ttgatgaatt gtccgtttcg attattccta 240

ttctatacaa caattgatgc atcctattct gtgaaatctg gtgaatatat atctgagtcg 300

ttggactcta ttgtggaaga gat 323

<210> 36685

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36685

agctatagggc ttagtcctta ctgattacac agcacttacg atgaaattca tctacaatga 60
ccaattgatt gagttagtgg gagatcgga ctcattctttt cagatgatat caccctccca 120
gttacgcagg ttggtggaca caggtaaacac cagtaccttc ttccacatta naatggaacc 180
ttccttggag acgccaatga ctataaccca cctaataccg gcagtcata aactcctttc 240
caaacacgct ttctctctcc aacctctttc aactctagcc ccattctgag ccacagatca 300
cagcattacc ctcttctcta actcagcccc agtcaatgta aaaccttacc gttaccttca 360

<210> 36686
<211> 351
<212> DNA
<213> Glycine max

<400> 36686

agctagcggg ttgtactttc tacttaaacac catcggttg ctatctcgcg ccgggggtatt 60
gtgggctgcg aactgggtgt gcgattgtct aacagcatcg gatgcgggtcg tcgtggcatc 120
atcctctata gattttggac tttagcgtgg actccgtgat ataagccatt tgatctttta 180
aggccgatag atcgggtctc atctgctctt gcacgccctc ttcattattc atttatttgg 240
atcgagtgac atacgggtgc ctttgtgctc tcttagttat ggtgaattcc ctaaagaaac 300
aaacaacgat gagcatgcc cgcgaacatg aatatgagaa tgaatgatcg g 351

<210> 36687
<211> 339
<212> DNA
<213> Glycine max

<400> 36687

tagctttgat ctgtctggta agagaagcaa ttgtgaaaaa gctgtacagg ggattctcag 60
tgctgtcaaa caaagtgtat tatttttgtc agcaaagata atatattata tattgaaata 120
agtaccagag gtacttacta tacaaaaaga gtccatatag atggttccac agtcagacat 180
taatattctg agggggaacc aagctatgga tacagaatgc atatgaattt acatgtatag 240
agctcataac tatgcaatcc cctgctgata cataaaactg tgtggaaaat tacttgacca 300
ttgattaaaa tgcactgtga aatccttctc aaacttcta 339

<210> 36688
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 36688

cagtagaccg ggccttgatc gactgcgag catctatctg tttggcaggc actttgggag 60
 gaattgattg cacctcactc taggtggact cacatttttg gggctctaga taggagacca 120
 tctttgaata aggactgact tggctactga tgccatggcc catatgattg gcacgcgata 180
 ggggtgctgtt tagtgctgat attttgagga tttgctcact tcttctaaga agtgggagac 240
 ctaatgcggg gttttgtgga tgcggtagtc tgttattggg agaactgttc ttgacgggca 300
 tttgaagggt acagtgtacg ttggagactg ctccctatt 338

<210> 36689
 <211> 157
 <212> DNA
 <213> Glycine max

<400> 36689

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 tcgagagctt ccattgatca attttaagct tctaaatata ttatgcacct gaatgatact 120
 tgagactgaa aagttatgac ccttgggaatt tctcgag 157

<210> 36690
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36690

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 ttaccctcgg aagcaaaaaa gataagaagg aaaatttcca atcaaagaga aagcaaaaag 120
 aaaagaagga aaatctccaa tcaaagagaa agctaaaaga aaagaaggaa aatttccaat 180
 caaagagaaa gcacaaagat cagaaagaaa attctcaatc aaagaatggg agacagtaaa 240
 aaaggaagaa gaagaacgaa agatagctcc tgatcaatga tcgaaagata acagaagaaa 300
 tgtgcagata ggtctntgga ccggacaata tctgaacaat atagaagtgg tcccaaatga 360

<210> 36691
 <211> 394
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36691

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 gattctaatac gctcccatgg ctteggaggt gaaatgccac cttccctgga acanaaaaaa 120
 agaatgaaat ttcctcttta ataacgataa gaaatttcca tcgagagagc aaaaaagaag 180
 aagaaatttc tatccagaaa aagagaaaaga tttccatcta catgggaaag aaaagaaatt 240
 ccctcaagat gggaaataat tgataaattc aagaaaagct ctgtcaagaa catagaatgg 300
 ccaaggctctg gacgacattt gacatcagat cgtccattga caagaataaa gaaactacta 360
 aatggctgtc ttgttccacc aaaatgtgcc acan 394

<210> 36692
 <211> 441
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36692

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 cagattattg acatccgcac tgatgtgggtt attaatgcat gtgagtgaac aatgtgtaga 120
 tgtgcacatc atagacaaaa gcctatcgtg tgcacatga ctctcaactg tattattcta 180
 catcactcat cgagaccatg cagattattg gcattcgtat taatgtgggtt gtcaatgcat 240
 gtgagtgtac aatgtgcact tatgcacatc acaaacaana gtctgtctat tgcacatga 300
 ctctcaacca tactgttttg catcgctcac cgaccccaag cgaattattg gcatccacat 360
 tgatgcagtt cttagtacat cagtgaacag tgtttacttg cacgcatcat aaacaaaagt 420
 atacttattg catcatgact c 441

<210> 36693
 <211> 351
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36693

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ataccactaa atccagattt ggccttccga ctctcaaaga ctcaactgtt tttccactca 120
taacaccata ttctcaactt ctaaccctaa gttaactcta cccttcatcc ctagcaggtt 180
tccataagca atttcagcac accaaccatca aaagcatcat catanaaacc ctagaactga 240
atgggtaagc ttaactcact caaacataac aagtttagca tgctttcgac aaatctcttc 300
acagataact atcacacagc attatccaag caaaactgcc catcatatct c 351

<210> 36694

<211> 307

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36694

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accgccagaa agaggaaaag aggctttttg caacacggaa gggggacaca accccaaaaa 120
gccacaccgg aaaaccgagg acacggaaac aacacgaacc aggacgaaca aacgaaagaa 180
gcccggaccc gaagggagaa agggggacag aacagaagga aaacaagaaa cggggagaag 240
aacacgggaa accgaccccg cgaagacgaa agaggaaaaa cacgaagggc aacagacacc 300
ggaaccc 307

<210> 36695

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36695

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aaccatacaa agtttcttaa cagatttcta attatgtggg ccattaagtc tatgatatgt 120
cgcaatagcc gagaagcctt gaatctcttc tgaggcggag taagtgtccg ccataaacct 180
tggccttggt ctaacacagc aggagaaagt tcttgacttc ccattcaagg gtagagcaaa 240

ccgatctatc cacatggttg cctcttggtg taaagagtcc atcacccctc ctctagcctc 300
 tgtttctgcg tatacttgag catactcgtc cgcgatccta tgctcgtggg ctgggggtag 360
 acctaaactc tctttggact tggcgataaa gctaacatgt taggctccgc ctgcgataaa 420
 cgccgagaca agctcttttt tgacg 445

<210> 36696
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36696

cgcgtgagct ttgatccctc gataccccgc cnganccgga gatccctaga gtcacctgaa 60
 gcatgcaagc gcaagtttgt tttctatgct anccaccaa gaagcgcgcc taggtggagt 120
 cacatcggtc acttgctgct gatgtagata gatcaccact tgagcctact agattagcct 180
 gctgccaata attaaactca ttgataaaga aaatgatgat tgtggctcga tgatagcgaa 240
 catgatgtgc catgctctaa cggcagatat tactttcact gcgaccttca gaactcgatg 300
 ggcttgctcc gtgtgattaa catagacatg atattttaga gagatactag gacgtgtgga 360
 gcttaaacga tgatttcatt cccaattaga ttcacgtacg acatatcttt taaactacat 420
 ctatgagtct tgcaatgcac gcttctanca agtagatagc agcatatact ggacatcctc 480
 cttgagatcg ttgaaggggc atgaccgtag aaaccagata ccg 523

<210> 36697
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36697

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 ctttcacaac atccgacatt gcattctgga gaaaaatata tagaaattaa acatcattgt 120
 ataagacatc atgttcaaaa tgggagagtg gacttgcagt tngtgccac tgattatcag 180
 ctttntgaca tctctacaaa acgattaact gaggaaggt tgantttgtt aagaagtcaa 240
 cttggaatga tctttattaa tgaattatct aatctctata tgatcatccat tggtgcatcc 300

aaggatatat cgtccactag acttaaacac aactcataa cattcaatan atggacaaca 360
tatcatgcat taaatTTTTT tttataaaa t 391

<210> 36698
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36698

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aatacatcga aacgctcgaa attgagaaca gaagctctgt gcatattcaa acgacaatac 120
attttaactc ggatgtccga ttgagtcccg taatatatca agacactcga aattgagaat 180
aatagctctg aacaaattcg aacgacaata actttttact cggatgtccg agtgagtcca 240
gtaatatatc tagacactcg aaattgagaa tagaagagct gagcaaattc aaacgactat 300
aactttgtac tcggatgttc gatggagtcc cgagcgtctc gatatatattat g 351

<210> 36699
<211> 380
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36699

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catcctatga agctgagtat attgcagcct cagaagctgc atgccaagca gtgtggctag 120
atgccccgat gaagaaattg caactggana aatcatgtaa agtgaagttg ttggtagaca 180
ataaatcttc cattgattta gctaggcata cgacttctca tggaagaagt aaacacatag 240
aaacaaagtt ccacttccta agaatgtcag caatgagaaa ctgaagattg acattgcaga 300
actgaaattc agcttgaaac atactcata agactttgaa gctagaaatg tntagatgtt 360
taagagattc cattggaatt 380

<210> 36700
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36700

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ctcctggtaa ttcgagatca cttganatta gtgaaaaaaa ttgtttccgt gtagaaaatc 120
caagccaagg cgcttccgta acgtttccat ggggtattct gcgaagattn tcaaccgttc 180
ttcgacgttc ttcattcggt cttcgtcgtt cttcgggtctt caacctgtaa gttcccgaaa 240
tcgaactttt caattcatte tatgtaccct tagtggctct catttgtttt cactgtgttt 300
tattttcatt tcattttactt ttctgtacccc cctttgacgt gcttttagtca tttacttaag 360
tcattttctc ttctaataca naatacaata natttccacc gatcatttg 409

<210> 36701
<211> 297
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36701

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agtggcacct gaagatatgt tgccggaggtc atgagacctt ggggatgtca ggtgggggtgc 120
tattgcccac naccaagctt gaccaatccc gactcaaccc gcgcatagtc agttcttgag 180
aacctatgac gtacctaaac atgcgagctc ctgacagtct accaataata gaacaaagtc 240
catatagcaa ggaggcttgt gtggcgggtg gccagctatg aatcttgagt ggtatct 297

<210> 36702
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36702

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ggtgattntt caccatggag atgcagcgga agacaaagga gaagaggtga gaggaggcgc 120
catccactan ggaataagcc atggaagaag gagcttcacc accaagataa gccttggata 180
agaagcttga aaggatgctt caatggagga aaagaaagag ggagagaaaag agagaggggg 240

tcagttccca caagcccgaa agaggcgggc agaacaaacc ccccccacaga agatacacct 180
 cgaaacccca acaaaaaacg gagacaagag gaaacggggg cgacgagcac ccaccacaaa 240
 ggggaagcta ccggccgaac ccacaaaaac gcgggcacga caaagaaagc aaccgaacca 300
 ggggcggaag gcgcaacaac acgagaaaac gccagaaaaa gcgggcacaac acacagaagc 360
 agccagcccc gcccaacgac caaaaaccaa aagaaaaccg cgcaccccca cgacaaacag 420
 ccgaacaagg acaa 434

<210> 36706
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 36706
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 tcattttgtc taaagtcgag catcgtgttc gtcgcactcg agcatcatca gaagtctgtg 120
 cttctttctcc ttcgccacct cactgtagga tgtttgttct actcctgtat aatatattga 180
 ttgcattcat gtatcgaca cttagtgaac taaacatggc tagggtttct catatttaac 240
 tcgagcatca tgacaactgt gtgcttcttc tccttagtga 280

<210> 36707
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 36707
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 taacagagca aaggcagaga actctgccag aacaccaacc taaaatcaca gcttttacca 120
 ctcagagacc ccagtaacaa ttctttcttt ccaattcgtt aaccgatgga tcaactccta 180
 atttttactg gaagtctcta atacataagc ctacatattg accgttggga tctactaaca 240
 aacatcccga actcattctg cactgctctt tccacaacca gcaaattgctt attatttttc 300
 tgcactagtg gcaaattcctg ctgcacaatt tcacagcaga aatctgcaca gaaagcagat 360
 tctgatacca cactgtctct tctccaatct tgcccaatca aatcttacag ttccaaatca 420
 tgtttaatca 430

acctttgggc atattctttg aaagattcat gccccctett gcatatgctc tgtagttgca 180
 tcctatccgg agccatatca gaattgtacc gatactgcct aacgaaggca cccattaggt 240
 ccttccaaga atggactcan gaaggttcca agttagtata ccangtgaca actgccccag 300
 taagactttc ttggggagaaa tgtatcagca gtgtctcatc ttttgcgat agcccccatc 360
 ttctgacaat acatcttttag atgggttcttg gagcaagtag tccccctgta cttgtcaaat 420
 ttcagcacct tgaacttg 438

<210> 36711
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36711

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 agtgggtacct ggagatatgt cgcaggggtc aggagacctt ggggacgtca agtgggggtgc 120
 cattgcccac aaccaagctt gaccaatccc gacccaaccc gggcatagtc cgtcagtgag 180
 aacctgtgat gtacctaaac aggcgagctt ctggcagtc acaataaaaa ggaacaaaga 240
 ccacaaagca aggaggcttg tgggtggctgg ccagctgtga atcttgtgtg atatatgggt 300
 tatggcctct ggtaatccat taccaacggt gggtaatcga ttacaaagct tataaatgaa 360
 gacaggagac tangatggtc tctggta 387

<210> 36712
 <211> 346
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36712

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 tatttctatt acatatatgt gtcaaacaat ccaaaccctc actatgcac aagcacacaa 120
 aagtacgaaa atagtcactg accctttcgc agccaagtca acaatgtagc accgggttgg 180
 cacaacgaac ttgttcatta ccagcgtctt ccttgcaacg accattacca tacatgagca 240
 ctaaaccaag cttaaagtgt acccgcgaca tgtcttctac actacaccaa gcttaacct 300

agaagtaagt aagtgaccaa cgtaccgtgg acaaagctct gatctt 346

<210> 36713
<211> 88
<212> DNA
<213> Glycine max

<400> 36713

aggatctgtc ctgttgctgg agaggtcata attgctctat tgcggctgat atagctgctg 60

aagtcgatga agtctattgt aaatgttt 88

<210> 36714
<211> 243
<212> DNA
<213> Glycine max

<400> 36714

gtgggctcca tgtctgcttt ccaaacggaa acctagcgcg cctgctggtt aaagaatcgt 60

caacgcagac accttgctg agccagaccc atagatataa ctatgggtgg ccaatgaaaa 120

taaactgcca atatttgatt tgttcttcta tgtccgggac aacgtcgtat aatggacgct 180

aactctttaa aaaaactcgg cgctgcacta ttgggacgag ccaatctttc ttctggccaa 240

gag 243

<210> 36715
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36715

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ggatgcccc cattatttcc atgacatana tgcaaaaatg atgatttga aactttatgc 120

aaaactggtc atgcatgcac ctatgcggac actcaagtgt caaattttta tggatcatgtg 180

atgctanggc tcaagattca tttcttccat tttagtcaac ccaatatttc caaaatatgt 240

tcttttatca atttgtgcat tcatccgagt ccatttcggg cgtccgggaa aattttcaca 300

gcattcacc ttcagggtga cacattgttt ttanaaaact agttatgatc aacgatctct 360

ttcaaagaaa agtgnaagtc atctcttgtc aaaagcatgt c

401

<210> 36716
<211> 308
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36716

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ctgtacatag aaactgctga tatacaccaa tttgggttct aacagaacta ctttantaag 120
ttacaactat agaacaaatc tgtaacatac cacatactct tatccacaac aagtggagtc 180
accaacttta ttattgaatg cctccaagga agataatgca ccgttcatgg tggcgctata 240
atgattgtta gcatatccta ataatatata taaaccgtac taaatctgag gagtaaaaat 300
aactcttt 308

<210> 36717
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36717

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ttaacctagg gaatttaaaa aacttaatgg ctgagtgtaa ctgaaattgt ggcaacccaa 120
agtcaccctc aacagccaac aagtcagcca ccatttggtc tcccaaaagg ctgatgccta 180
agttgccaat tgggccctta ttacaacttg aactaaacct aactaaagcc cttttagttg 240
attaacccaa aacatatttt tggtcagcca actctacaag gattggggcca ttatttagac 300
aaactaaaca ctctattatt gagacaaagt ggtgtcatTT attccttctc catttggggc 360
atgatacaac tcacaacctt ggacttttct ccttgaaact gggcttgtat caaatatatg 420
gacacacttg tg 432

<210> 36718
<211> 307
<212> DNA
<213> Glycine max

aggctcttgct taatattttt ttcattttta aatcctatag aaatcctcta atttatgtgc 240
 tttcggtatg ccgactacca tatttagttg taaaacatgt agcaaattatt tttagatagt 300
 tatgtgttca atataaaactt tgtgagtat 329

<210> 36721
 <211> 349
 <212> DNA
 <213> Glycine max
 <400> 36721

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 acttgctagt atacactggg gacactcttc attttatctt attccttttt caaatgcatg 120
 ttgacactct ctttctatgt gatggaagct actaagaact ttctaactgc catggttgaaa 180
 tattctctcc catcttggtg aaatcacttt tcttgcttta actatgacac cataacaaat 240
 ccatgtcctg cttctatcgt gtacgcggga attacatatg ctacactacc acactaattt 300
 atgaatcacc tgacacattc aagtgaatct cttctgtttg gacccttac 349

<210> 36722
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36722

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 ccttacgcac ttctctcttt ctcgaaatag ctgaggaaaa tcggttccgt gaagaatatt 120
 caagccgagg cgcttccgta acatttgctg gagtgatntc ccgaagggtt tcgaccgttc 180
 ttcgacgttc ttcatctggt cttcatcatt cttcagtcct caatgggtaa gtacctcaca 240
 ctaagcttgt taattcattc tatgtaccgg tgggtgtcca catttggttt catgtatatt 300
 tattctcggt ttcatgtact ttttataccc ccttttgacg tgcttaagcc atttatttaa 360
 gtcatttctc gcctattcta aacataagat atattttcac cgatcatatg aattgtatca 420
 atccgt 426

<210> 36723

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 ccaaaagctt cattaagagg cttctagcac actccagaca tcttctcaac gatcccaacg 240
 gttagatcat ggaaaaatgt cttgtatagt tgcagaccaa atttctagaa gatccaacgg 300
 ttaacgaatg ctacgcagca tttttaccga cgcagtttca tgtagctttc tcta 354

<210> 36726
 <211> 358
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36726

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 ctggaggaat attctggaag gcccaagagg ggcctatttg ttatttgcac cctcattttt 120
 actaaataca ccccttgatc ttttntgggtg attntttttc cgtaacgtta ctaaacttta 180
 cgaatttcat aacgatgctt gttocttttc cgtaatgtta tgaaacctta cggattacgt 240
 aatcatccct tttttgcctt ccggaacgct acanaacttt acggattacg cattaacact 300
 ttcttttaat ttctggcatg tcacagaact tcacggattg tgctacaatg ctttcttt 358

<210> 36727
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36727

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 tcttcttgta gaatgccatg gagaaagaca ttgttcacat ccagctgctg tatgggccag 120
 tgataggtga cagccaaagt gagaagaagt ctaacagtaa taggcttaat aactggtgaa 180
 taagtctctt gaaatctgtg tcatattgct tgagggcaaa gttgattgag gcttgtgatt 240
 anatgaagag gaagagggaa agaggtcata cggaaatctg gactcattga acaccacatc 300
 cttagatatg tagattctgc cttagaagaa agacattagt agcctttgtg cgtangagaa 360
 tatcccagaa aatgcattct tgagactgaa ttngagttta ttct 404

<210> 36728
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36728

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ctataattaa gaccaaaaact taacttgcac atctgtcatg taaggctaag tntcaatcaa 120
gttctaaggc aatagtgcac ttcccaatgc taaagtcacc taactgtgca cacaaatggg 180
tgatcagaat aaaagcatat aaacattaat cattgaagga agcattgaac acagaanaca 240
taatcaatta gatattaggt atttacatca gctgttcatt acaaattccc aact 294

<210> 36729
<211> 316
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36729

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cgagggaaaa aggaaaaaaa cctttttaca aggaacacg gggaagaccc caccacaaag 120
gaaggaaaaa agaaacacg gggcacacaa acaaccaaga acaaaaaaac cgcaaaagaa 180
aaaagacaaa agaccacacg caaaaagcac gcacaacaaa cgcgacagcc ggaacgcaag 240
aaaacacaaa agaccacgga aaaaacagcc acagaaacca aaactcagac aacgcgacag 300
aacgaaaccg aaaacg 316

<210> 36730
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36730

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gcagcgtatg ttaccattt aactaaggcg tcctaagcga aatgattgat aagcttcgcc 120
agtatcccca tgaaaaacct tattcaacaa ttcaagttag tgaaaagcta acgaaaatta 180

gggacttata aaactaattc cttaattgaa agcgtacgtg acaatcatag tgaattacta 240
aacaagattg gtagttactt aagtcatacc agatactccc gagccttcga caatcttcca 300
aaatggaaca agaagcacct caaattatct atgttatgaa tgaagatagt gacaaaaact 360
ttgatacaca actgagatat gatcagtgtc acaaaagaat ataaatccaa taattccatc 420
actggaaaca cctgtaattt tatataacgc cgctgccctg cctttataga aaaaagg 477

<210> 36731
<211> 358
<212> DNA
<213> Glycine max
<400> 36731

agctagaata tatggtgtct ttcacatgcg gactaagtgc cagtcaggcg atggtgcaca 60
acaatttttc cacatccaca agtcgcgcat aaatccacca tccgctgttg cctacctcca 120
actgagctca cgtactccca tgtagcccat atcctcgttg ctctcaacac cgggtcctca 180
tcaatcctgc caagctatcc caacatccag gcatttcagc attcagacag cacaaactac 240
cacagccatg actacatggc aaaggcagag aactctactc ggaacaccaa ccaatatcac 300
acgttgttct ctcttaaaga cccaataaca tttctttgac caactcatca ccggagat 358

<210> 36732
<211> 188
<212> DNA
<213> Glycine max
<400> 36732

acatctttat attcctgcc taagaggtga aactaggag aaccataaat agtgaactga 60
ctataatcat cactctctct cttttgagga tcactctttt gctcgggagt atcactcttc 120
tgtttcatat tcctttgagg agcctcacta ttgactttct ctaaggctct cttttctctc 180
attctgat 188

<210> 36733
<211> 389
<212> DNA
<213> Glycine max
<400> 36733

tggattgtaa tgaaatgata ggaaaagtat tcaagatact tgaaatgcaa aaaaaagcct 60
 tgcttatata agctcttcat gtctgggtcaa gatgaccatt tagaagagtt ataactttta 120
 gaaaaactta aaaccaatth gaaaaagtca aaaaccttht gaagagttac atctthttgat 180
 ttattcagaa acagtcactg gtaatcgatt accaaattag tgtaatcgat tacacaaggc 240
 tgttaagtga aaggatgtga ctctacacat ttgaatttga atttcaacgt tcaaagtcac 300
 tggtaatcga ttacccaaaac attgtaatcg atacagattt ttaagataat agcagcgtat 360
 atattcagtt gaaacattth caactcatt 389

<210> 36734
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36734

tttcttgatt tgangaagng tngaagggtg anacttcctg cgthttattgt tgaccacaga 60
 gtggtacctg gagatatgtc ggggaggtca tgagaccttg nggacgtcag gtggtgtgct 120
 attgcccana accaagcttg accaatcccc acccaaccg ggcatagtcg gtcagtgaga 180
 acctgtgatg tatctaagca ggcgagctcc tggcagtcaa cagataaaaag ganaacaaga 240
 ccacanagca tggaggcttg tgggtggctgg ccagctgtga atthttgtgta atatgtgaga 300
 tatggcctct ggtaatcgat taccaagggt gggtaattcg ata 343

<210> 36735
 <211> 277
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36735

tgctntanat cacagcaaca cagaatctaa gtgtccaaca cccctcctth caatgaggtt 60
 tctaggttht gaaaagtgaat tttagaatga tgtanatttg aagcaaactc tcacctcaca 120
 ccagtcata acatctatth agacttgthc anactgggat tacacctaan atctccccga 180
 atcanaatth aactcttcaa cacccaaatt gccctagaaa tggctctnnt gtcactthtg 240
 tcattthgtt tctctctgca cagtccaagc thtctcat 277

<210> 36736
 <211> 302
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36736

tatcttgcac tatctacatt ctccnccatt ctgaacaaaa gtatttcttga catcatcaac 60
 atcttcatga tttacaaatg ttaaaaccaa aagaaaaaca taaatttgca aactcaaaat 120
 ataagtttta cattactaac gcgaatagaa ttttcaatgt attattaaag gataaaaaaa 180
 ttacacttag tgataatcat acaattcatc catctgcgca atgaacaaga aagagatatt 240
 acaaatttca ctatgtcttt agacattgga ctaataattg tttacgttgt agagatatga 300
 ta 302

<210> 36737
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36737

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 gttgtttcgc aagttnttga cataatcttg gctcctggtt ggtgggttgg tgagttggtg 120
 agttgctaag ttcgtgagtt cctgagttgg tgtgttctca agctggtgag tntgttgttt 180
 aaaactgttg gttctgttta ctgcaatgat tggtattggt gcaccatttt cttgtgtgct 240
 gactgtcatt gtntttgttt aggggtataag acaacaagac gtagtttgca ttggatattt 300
 gctttgaaca atggttttga taaccctaaa cactaaccta agactttggt gcttactcct 360
 gtgcacat 368

<210> 36738
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36738

<211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36744

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 agagtgtaag ctctatcccg aagaatgcat ggtcattggc tgccatgttt tcaattanct 120
 ccataacttc attaagcatt nttaattcca gagacatcta gaagttactt caagttaggt 180
 cgtaagccat tgataaagat atntagttgt attggtcac tgaatccatg cgttgaggtt 240
 cagcgatgta aaccacgaaa gcaatctaaa gcttcaactaa gtgattcatc tggaaactga 300
 tgagatgaag aaatctcagc cttgtcttat gccgtcttgg attttggaat gtatttctgc 360
 aagaatntct ccaaaacctc tcccatttc ttaggtatt tcccttgaca agtgaacat 420
 ctttaacttc ct 432

<210> 36745
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36745

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 tcctctgagt cgctgcttt atgcancttg catctgatgn gngacatcnt gnacttctga 120
 gttatatttc attaactgcg cattatgtng atgcgaactg gaaggtgaat ggtaaaatgg 180
 gtaatctttc tcatttttcc tctccacact cggggcggtga gatggctaaa gtatatatgg 240
 ttttttcgga agatgggtgga tagacaaaca tattctcata attttgatga tgctcttcac 300
 tggttaaagca gacttttgag gaagactttc tactatgggt ataaagggcg ggaattttta 360
 tattgatgtg tctacattta aacttaggtc atgaggggtga agtatcggcc tgtggaaaaa 420
 aataggaagc ctagttgtta ggatcaaggg aagaagtttt aactgttg 468

<210> 36746
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 36746

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catgtctcta ctancgcctt aattaattta ttatcggtga ttgtacgtaa cgtggttgatt 120
aatttattaa cgttttatat aaanttcatt agtgagataa tnggtacttt tttataccaa 180
catgttgcan atggatattn tccanatatn tacttagctt tcaataagct taatttcttc 240
tcttagaact gtgattgata gtacgtgaag tctatctttc ttttttctcc tttgtgtaca 300
agagcgagaa tgtttggtaa ttagatacct gaacgtggat taatgagtta atcttggtgca 360
ttt 363

<210> 36747
<211> 352
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36747

ttctntatth taactcatca acattacatt ttacagatgg tgtaggaaga ggggtccaac 60
aaatagccat ctctttcctt ctaggagtga gtgaagacat angactagca gttatctcct 120
tacaaatcac cttggccata tttaatatca ttatttggtta aaattttatg taatttcttc 180
aatacaatcg tagaatgaaa ctctatatth atgacaatcc tcaacttatt gacaccatca 240
tttccacttc tcanatttac accatgtgtg gtggtaagta agaaatangg ttgaaaagat 300
agagggaagg tgaanatgag taaaagatac acccatgtta taccctcccc cc 352

<210> 36748
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36748

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cgtctgcggc gacgcgagcg cgtgcgtact tctctttgcg tcgcgggaag agaagaggga 120
gactaggtht atttgtgaga ctccaagctc cattccgata aattgcctgg tcattggctg 180
ccatgtagtc aagtaacctc ataacatcac caagcacttt taatggcaga aacatctata 240

agttacttgc agttatgaca gacgccattg atcaagatat ctaattgatg gcgtcacaga 300
atccatgcgt agaagttcag tgatgtatac ctccaaggca atctagagct tcactaagtg 360
attcatctga tactgctgat atgaagagat gttgccttgc cgtatgccgt cttgattttg 420
aaagttattc tgcagatatt cacacaatct ctcccttata ttaggctatt ccctcgacaa 480
cgaagccttc tttatctctc tgcacgggta atgaaatt 518

<210> 36749
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36749

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caaatttatg gatgcacatt gcacagtggg tgcacaaaaa tgtaatgttg tcattggtat 120
atgatgtatg cacaattggg gcataagggt cacaattgat gcacagggtat atgagtagac 180
atgtaagttg agagtgtctg ggtggccctc aacctaatgc tggagggttc gtggtgacta 240
aatgaaattg acctacagaa taaacgagtg atcaagatcc ttctatacat acgattttga 300
gaacataga ggtaagacac taccatact tgtctacaaa cctcacttcc tatgt 355

<210> 36750
<211> 185
<212> DNA
<213> Glycine max

<400> 36750

aaaaaaaaa aaggggaaga gagagcaaag aaggaagtaa atacaatgca aaaaagaaaa 60
acgaagagaa acaaaagaaa aaagaaggaa aaaggaggga gagaaagaga aaaagaagaa 120
gaaaaaaaaa gaaaatagaa ggagagagaa aagagcggag aagaaggaag gaaaaagggg 180
aaaaa 185

<210> 36751
<211> 345
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36751

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ggtatggaca agctagtgtc tcccgcatta gatgagcttt attctatggt gctagggcag 120
agacaacatt attctagctc aggagatctg cactctatg ctaactcaac atgaaagcaa 180
gggtacatgg cgtggaaagt ggatatcata agctacaaga tatttggtta taagagttaa 240
tgctggacac ttttatgcga ttgatcgta accattcaat cattancctc atattccatt 300
gtttgtctat agcctctttc tatgtatggg caatggagat aaaac 345

<210> 36752
<211> 378
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36752

gcattctaca gngactntag acgtactaga tgattaaggt tattgcgtga gggatatatat 60
ataaaactgtt cattaattga gaactcctat aaagtgagat gttntcctt ctttcttccc 120
tttattatct ttntgttgag aaagtaatgt gaatgtgaat atgctttgct gaggttagtt 180
ttggcctttt tggaccacgt caccgtcaca agaattaagt aatactgana acatgaattg 240
gtcttggaac ctttaatatg ttagctgcac attataaaat attgaagact tgaatgtact 300
gaaacatgaa tnggcctttc cactttaatt gttactggac attaacatga cttgcttttt 360
acatggattg caactttc 378

<210> 36753
<211> 514
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36753

naatactaaa ctangcattc nannncgtan gtttgngaag tcgaggacna angnnnnngt 60
tataatgagg agacgnnaac actcnatntt ctagnncgn nacaaccaac canctagtat 120
tggtgttagt aaaccataac ggccaccac accacgcacc catatgagaa aggatgggaa 180
ttaaggcact cactatatag tgggataaac gggctctgga tcttggggaa aatttttctt 240

gacgaccata atggatcaat gaacggtagt agctgggctg cactgactta ttctgatgat 300
aactggaacc aatagtcata ttgtagttgg atacaccgca gtacatgttt cacacttgaa 360
agtaatctcc tgaataaata atccccact gaactttact aataaaccta caatttacat 420
tttcaaagaa aaatctaaaa catattcctt gatacataca gacactttta aaagaatcga 480
aacaaaacgc tacaccaacc cacataccga atcg 514

<210> 36754
<211> 516
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36754

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nanntcagag aggtggagga ggtgtcttta nttttttcat cagnacatcc accaggaggc 120
ttgtgtatgt aaggaaaccc tctccttggt attcataaga tccttccacc caagcataaa 180
gaccttggtg gtataactat tccttggtca attggagaag tcactatgtg aaaagctctt 240
attgacctgn gagccaccat atatataatg tggctctcca tgtgtacaaa gatgtgagcg 300
ctacagatca tgccaaactaa atgactctcc tattgggtcga cgtccatta ccagccatat 360
ggagtaaatg catatgggtg tgtctacaag aacatacatt tttacgggtg attcgtggaa 420
tggatattct caaatatctg acttctctggc aattggaaag cgattcttga tactctagcc 480
gttatatgan tgcttaataa aaccggaatg tgtcct 516

<210> 36755
<211> 332
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36755

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aacgtcttga gccggacgcg tgatgacgat ttgtcaatca tgggccaat acctactcgt 120
acctgctcgg gtgggttggt tcctacttgt cggccacgtg tcgtagacaa cgctccagcc 180
ttttagatg agctgaggtg gaccctggag gtgggtggcg tgcgctctgt gcccgctgct 240

ggccgtcccc aggetgctgt ggtgcctcac cctatgcctg cctaggggcg cagtacttct 300
cgatgaaagc ccagataatg atgggctgat ga 332

<210> 36756
<211> 308
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36756

aagagagaac aacacaatgc ttanaataag tgtgcaactc acaacttcta aacttgtttt 60
ttctaaagct ctcatggtaa aaagtgagtt gtgaatcaca tgtgagatca agagacttat 120
tcaactcaagc aaacattttt tgcgtgtgac tgataaggtc tttatctctc tttgactcaa 180
gtttttgtgg gttttcatgt tgtagcatat acatgaattt ctaaagcatg ctatgataag 240
ttttctagtt tgcccaaggg aaggttctct taacttttaa agttcttagg gtgggacctt 300
atctcttt 308

<210> 36757
<211> 530
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36757

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gctcaatgga ggtggcacac atccatattc aactcgcca aacaaataag gagtcttctc 120
tactcaaaga tagctcccta cnctctecta caatcaatat agaacctata tctaatgtc 180
acatcctatc agagcgtggt gttcccggt cctctagcat gagattctat atagtcatcc 240
acctattcat ctgctcccc cgacacaagt tcaagatcat cacaggatct caacacaaca 300
acacacaagg aagtgagtat cacattecta gcttatacag aaccagacca ttaatattct 360
tattatataa atgagatacc ccttgcttaa acatagctca cggaaccttc ccacctcgtc 420
gttcaaaatt accttttaca tcatcatgca cattacacaa aaatcccccc cttcaatcag 480
gatattttta cccattcatt ggcaagcgta tgcgtaaatt gtgcctagcg 530

<210> 36758
<211> 265
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36758

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cttcttattc atgagattga ttaatggatc gagggctctt taagttgtta cgaattctga 120
acacacagga aggggttggtc ctatgttggt caaactttgt aaaatgcac ttacaacata 180
gtgaaaatct caaacgggtt gttggngatt atacttccca caaggcatga ccgaactagt 240
ataaaaccga gttcgcttct ctctt 265

<210> 36759
<211> 182
<212> DNA
<213> Glycine max

<400> 36759
tatcatacac cagccgtggt ggattttgtg gtaagcgtaa aacctgcact gagatggcgt 60
ttttaccagc aggatatcat gctgcgatca tactcaccat gatgatcgtg atcatcaacc 120
tccaccatcc cgtacctaaa ttttaccagc gtgtgcacct taccaatatc ctgcgacact 180
ct 182

<210> 36760
<211> 282
<212> DNA
<213> Glycine max

<400> 36760
tattccgagg ccacttgatc cggcgggtgg tatcaaagca ggtatctcgt acaaagtttc 60
acaactacaa gattcatggc ctccctaaat ttctgtttc tggaaggaaa ttccatccat 120
aggccacca tatttaatgg tgagggttac cactattgga aaatccgaat acaaatcttt 180
attgaagcca tagaatttaa catttgggaa gcaatagaaa tatgacctta catactcacc 240
atagtagatg taagcactta cccacagca caaaaacct ta 282

<210> 36761

<211> 159
 <212> DNA
 <213> Glycine max

<400> 36761

taccattgga atttctcgag agcgggcat gtgctatata tagcgctcgc atatattata 60
 cacctgaatc agacttgccg gtgacatgac atgaccatat tagtttatcg cgagcttatg 120
 atcttcaatc aacgcattct gaatataatg tggctgaat 159

<210> 36762
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36762

nggtggctga aaccttgaca tncnancnnc ttagnnnata gtcagncgcc cnaagnnana 60
 ngaaccgacg atacgaagag cgttatttga ttctccacca tgcctacaac agtgaggtgt 120
 gtagtgagta taatagcatc agccactaca caatgcgtct agatctatct gcntgagatg 180
 cagatggatg agcctctgat ctcaagacag gatactttcg aggaaggact gatgatgaca 240
 tgaccaccgc caagaccgat aaggccaaca gctcatgacc tatgttacta accaaccac 300
 gcattggtac acacgttggt tttttttctt tgaatgatat aaggaagccc atcgcaaaat 360
 aagctctttg caaagcaaac aaaataactgt gttgcaaagc caatctattg gaggcaatta 420
 ttcagttaaa aaacaatttc ctcgatatgc ccaaactgca aagcaatgct tcgaat 476

<210> 36763
 <211> 115
 <212> DNA
 <213> Glycine max

<400> 36763

tgagtcccgt aatatatcga gacgcgtgga atgtatatcc gcaactctga gacaattgaa 60
 ttgacgataa ctttatacac ggatgtgcgg ctgagtcact gtaatatatc gagac 115

<210> 36764
 <211> 316
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 36764

actgtcctct ntgcntttat cggggaacat ggaccattca aaaaagcata aaatcaacac 60
ataacttttac cgcttttgca tgaactacgt aggtctgggt tcttgatcgc aattgaggat 120
acataggagc aaaagctccg cttttgtcga ccacccaag agatcgtaa tggtaaacg 180
ccttaacgtt tctctcctt caaaaacaa gagatcgta atggccaac gccttaacgt 240
ttctctcctt tcaaaacaa gagatcgta atggccaac gccttaacat ttctctcct 300
ttccaaaatc aaaaga 316

<210> 36765
<211> 247
<212> DNA
<213> Glycine max

<400> 36765
ttaccaatgc cactccttca tatgattata tttttgtact gtttaagtag agttctcaat 60
acataatgtg atccatgggc cagccattaa ggtcattttg acaggagcat gtaacagaac 120
agcctgtata aacaaaacat gatttttaag ctacttttga atggattctc actggtatgc 180
acattctgaa gctacttttg atccatcaga aatatcgcat tttctctata cgcattgcaat 240
ggtcattg 247

<210> 36766
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36766

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aggtgtattt gttacttaca tcacacacat ctcttgggt aaactcacat acatgcatac 120
tcaagcattg tggggcacca aaaattgcac atgtgcacat cttggcattt ctaataccta 180
catacgcaaa cttcatgatg aatcttgact atctacacaa taagggtgcta catttcatgc 240
tctnttttca agtttttgct atctaaagcc gcatgcaatt caaacatnat ttcctttgct 300
gactanaatt gattccaaat taaaaggata atttttgtaa tatggtttct tcacataaca 360

tgcaacatat ntatatatat ttttttgtga aacattttga ctacccaaat atatatacat 420
aca 423

<210> 36767
<211> 246
<212> DNA
<213> Glycine max

<400> 36767

atctacacaa ggtctgagag accatacatg attactaacg atttctaatt atgtgggcca 60
ttaagtctat catatgctga caatagccga gaagcccatg aatctcttcg ggggtggagt 120
aggtgtctgc catcgccttg gcttaggcta acaagcgggtg aagatcttga ctcccgttct 180
aggtcaaagc gaaccgatcc atccacatgg ctgccttttg gtgtaaagag tcgatcaccc 240
ttcctc 246

<210> 36768
<211> 209
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36768

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caattatagt cactgtttga atacctcacc cactcaagtg tatcacacaa ttatggcttt 120
tctctaataa aacactctaa ttccccttga gttcttaagc aattcaagag attatggcca 180
caacaaagaa caatacacca atatgtgta 209

<210> 36769
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36769

tgcccagagtc attcatccct atgaagtgtt gttgttgtat tggcgatcga aattgccatt 60
ccctgtgtta tggagttgaa ccaagctcat gctttttcga aaaaagttca tcaaatcaag 120
ttgaagaatg gaagtaacta tcttgcaaaa attggggcaa aagatgaatc gagtcacatc 180

actgcttcgt ctactgccaa acatatttag gattgttgat gttcttgga cttccagttt 240
caccttgaca aagatgtcat agaccatgtg gaanatctaa attgattcaa ccccatatcc 300
tgcacaatac ttcaactgta catcattcgc atacatccat gcttttcatt ggggtgcattg 360
ctcattgatt ctttctttga aaagaaaaat aaataattaa ttattacata aataaaatga 420
t 421

<210> 36770
<211> 234
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36770

cttcacaaag tgccatatatt tgtttcagtg gcgtaaaca caaatttcac cactctacgc 60
atgtccaatt tttagaagac atttttcctt attacccaaa ttcgttgcca atctctaact 120
ccccttcagc ctctatacaa cctcccttta ttccattnta ttgtgaatgt atgaattcag 180
ggttttgatg atggccaagt agaatcaaac gaggttgctt caaaaaacat tcaa 234

<210> 36771
<211> 250
<212> DNA
<213> Glycine max

<400> 36771

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tactaagctg cccttattag tagtctttgt tgtaataaga gacttgtaa actgtactca 120
agtcacgtg atgttgatta ttttgatatt cacttccttg tgacggtaca ttctagggct 180
ataaactgac cctacatacc gtaaattccg taaaattttc gcataagggt ttgggggttg 240
tttcatcatt 250

<210> 36772
<211> 518
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36772

aaagggtagt gngtttgtat nnetgcanca ttgatgatan gacctgngcg cngangcnga 60
cgaatctgcg tgagcgatgt gcaacaagat ctctttggag attaactaat ctcaaccgga 120
gggggtcataa gataatgaca cgccactcat ggtacatata tgccataaca tagaaggat 180
atctcaacct aatctgtcgc agcactccat tattatata tacaattatc catgtttggc 240
atgtacatgt gagtccttgc aactattgtc tccccacca tgacggaagt atctcgctct 300
atcaacaggc caacatcgga aggatgctag taaaaatgat gctgatcact gaagaagcat 360
tctttgtgct ttctaacgtt gctgatagct ctgaacacca atatttggtc gcacttatga 420
cgatctgagt agaacgagct gatacaaaaa cggacaacat atcttgtgca ctcggtatga 480
gaagtgtgcg tgaatnttta agctcaactg cttgaaac 518

<210> 36773
<211> 151
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36773

ttccactgta acggagggtgc gaagtttgta atgattgtca tgtgggtgatc acacgcattt 60
anatgtctag ttatacatgt ttggaagatt ctacataaga tgataaataa taatatttgt 120
tagttttgta tttatatgag tcataataat t 151

<210> 36774
<211> 213
<212> DNA
<213> Glycine max
<400> 36774

attctgaatg cttatgtgat actggatgaa ttgcttatac ttttaacact tataacttgt 60
tatttattat tttataatta ttatttatag gttctagatc aattgaagaa tcaacgtcta 120
ctgatgagat tgaatccgat gatgaaggta tattcacttt tagtgggtct aaattttctt 180
aatatcatta tacatatcta attttcaaatt ttt 213

<210> 36775
<211> 449
<212> DNA

<213> Glycine max

<400> 36775

agaagaaatc acatgtgtgt catcatcaaa tatgtggaga atgtgaatgt atgcatacat 60
gatttgtatg atgccaaaga agaaccaaac aaggctgctt caaatgataa gcatttgctt 120
caagaataat tcaagattgc ttcaacaaac aaagccttat ttcaagattc actaaagacc 180
aagccttgcc ttataacaaa gtgctttcaa gacatggaag gctctggtaa tcgattacca 240
ggaagtgtaa tcgattacca caagacaggg ttgagaaata gctgttgaaa aaggttttga 300
atttgaattt tcaacatgta atccattacc atatgtctgt aatcgattac cagcaacgga 360
actttggaaa ttcaaatcaa aagtataacc cttcaattat actgtgtatc gatacacaac 420
attgaatcga taccagtgga agtttcaaa 449

<210> 36776

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36776

acacataact cggntgtttg atattggata ttacacttgt ctatatgact canacaacaa 60
agacactggg agtagagaat tacataccct gcagaacagc aagaatatta ataattacac 120
tagccactgt gaaaatttca tggcaactaa tttagtaact acttaaagca gaaaagcaag 180
aatattaata atcttacctc aatgccccct ccaagacctt caaatacatt tttcagattt 240
ctagatgcat cccagacttg aacaattcca tggaagcacc ctgatgcaag aaactgtcca 300
tcataattaa aatctanact tgatacaaaa tctttatgac ctacacaaaa tcaatgacaa 360
actcacgatg gaaattcaat caattgaaag taacatgaca ttaccaatca tgatgntgaa 420
cctatctatt agaaaatata catccagtat agcta 455

<210> 36777

<211> 334

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36777

tagcaatatt gaagccgttg tataggtttg ctgccagcgc tgcctcatc agaccattca 60
atgcctcagc tactatattg aataaaaatg gagctagagg gtccccttgt ctaagacccc 120
tttgaggctt gaactccttt gtggggctac cgttgactaa aactganatt gaggctgatt 180
tcagacaccc ttccatccag ctgatccatt taggacaaaa tctgttctt ttcagcatat 240
accagaaaca aattcatgat accgagtcac aagcccttcc ataatcaact ttgaatatga 300
ggcaggggta tggctcctct tagcttcac aatg. 334

<210> 36778
<211> 305
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36778

catactcaca ttngagtcac gctgagggcg ggaaataccc gagtgggttac ccgtataaac 60
attcttcttg ctatctgtaa gacgaaaagc ctgatagcat gcgaagactg acatcgtctt 120
ctgcgccctt cgtcaatcgc ggccgacaag ccattgaca cgcggagatt tacgtcatct 180
tcggcgctca caagatctgt catactgaca ttngagtcac gctgacgggc ggagataccc 240
gagtgggtat ccgtataaac attctttttt gctgcttgaa gacgaaagcc tgaagcatgc 300
gaaac 305

<210> 36779
<211> 279
<212> DNA
<213> Glycine max

<400> 36779

cactacaagc cttaagtga caaccatgat atcaccatat ccttaaggaa ttttgagct 60
ttgaaattgt tttgggaata agtgaggggg tttttgtttc attgaataac atgtattgtt 120
ggccatgctt catgatatat tttgagccat acttgatgta cattgcatat tggtgaaatg 180
ttggacatgc tgaatatgat gttgttactc aaaagctaag ccatacttga tgttcattgc 240
atattggata aatgttggac atgctgaata tgatgttgt 279

<210> 36780
<211> 220

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36780

cattccgagc tngccttact ggtgtgcttg ttgacttgat ataccagcca cctcataata 60
ttgatctttt tatatgaaac atggatagta tccatttaaat tttccttgat ttttaagacta 120
cgatagactc atgttcatat ataatatgaa acataaaaagc tccaatggaa aacagtcacg 180
ttcttgatta gtatattaaa caatgaagtc tatcataatg 220

<210> 36781
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36781

tgaagcccaa tttggattac actngttttt atcgccact caggaatgac ctttatggtg 60
ttatggttca tgggaacccc tcgatcaciaa tttaaaaaat taagacaagt atagcaatag 120
aacatacctt gttctgtatt ttcatgttga ttattcctac caaacagtat gacaaaccta 180
tggtgtccca tatgagtgcc taagtttgta ttgaaactaa taaataagaa caaacttacc 240
taatgagtcc ctatgtacac aaatcatgaa gatgctgggt gcacgagtga ttttcaatag 300
agtgttgac caccataac atttattaca tcaccta 337

<210> 36782
<211> 125
<212> DNA
<213> Glycine max

<400> 36782

atggaatact tacttggttg tgatgaataa aagccgccga tacggaatca aaaaatgcaa 60
aacatagtga tectatggtt gcaaaactct caatcccgtg gctattgctt ttgaatgtgg 120
ggggg 125

<210> 36783
<211> 306
<212> DNA
<213> Glycine max

<400> 36783

gggagcacga aattgaagga ggataatggg agagaagttg aactttgagc tgtgtctcac 60
 aaaactctca ttcatcaaag ttacaacaag tggtacacat gtttctatat atagactagg 120
 tagctgtctt gagaagcttt cttgagaata cttccttggtg aagcttcttt gagataactt 180
 ccttgagaag ctaaagttaa tctacacaca cccctctcat aactaagctc acctccttga 240
 gaagcttcct taaataagat ccctatcgac gctaaagctt agttaccac acctctctaa 300
 tatcta 306

<210> 36784

<211> 224

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36784

cctctatgac ctagaagacg agggacctat tcaggtgagg gtcagcgggc atctgatcaa 60
 atntgatgaa gatactttga acactnttct gaagacccca gtgattctgg aagaggggga 120
 aaatctttgt gcttattccc ggtttgact cctgaggctt gatcctcagc agttggctgc 180
 taatctttgc atcccaggga ggggatatta gctaaatgtt gatg 224

<210> 36785

<211> 99

<212> DNA

<213> Glycine max

<400> 36785

tatgactcaa acaacaggga cacttagagt agagaattac ataccctgca gaacagcaag 60
 aatattaata attacactag ccactgtgaa tatttcag 99

<210> 36786

<211> 242

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36786

attcctgata attcggattc tgagactgtc ctcaaactat ctacaaattc tctgcatggg 60

acctgagagg ttgtctaata naagttgctg ctctgaacta cctttcatat tgacaggcag 120
aaagaattcc aatatgtaat catcatcatt agtataagta ctccttagcc taattgcaac 180
tgcagcattc aaattatact ttgcgtgcat gatggacaag tgggtattca ctaatatcat 240
at 242

<210> 36787
<211> 376
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36787

ctggatgcat tggttaacta ggtaaccag ctgttcttga accanaaatc tgtacctgtc 60
gcaagggctc gtagtttgtg ctcctctgct gaccaccata cagacctttg cccttccatg 120
caacaacctg gagcaattga gcagcccgaa gcttatgctg caaatattta caatagacct 180
cctcaacctc agcagcaaaa tcaaccacag cagaacaatt atgacctctc cagcaacaga 240
tacaacctg gatggaggaa tcaccctaatt ctcagatggt ctagccctca gcaacaacaa 300
tagcagcctg ctcctttcta tccaaatggt gttggcccaa gcagaccgta cattcctcca 360
ccantccaac aacagc 376

<210> 36788
<211> 313
<212> DNA
<213> Glycine max
<400> 36788

ataagctaaa cgcttgtcaa aggtcggaga gaagtttgtc cgaccaattg agcaagatgg 60
aagaaaacat gggggccatc attgaccaat acaaggaaaa actaagtcta gcagcaaccc 120
atgaacaaaa gctagaaaat gagtatgcaa aggtatcggc cctgtaagcc gaaaggggaag 180
cgagagaaaag agtgattgat tcattacaca aagaagcaat aatgtggatg gataggttcg 240
ccttcacctt aaatgggagt caagagcttc caagactgct agccgaagct aaagcaatgg 300
cagacgtgta ctc 313

<210> 36789

<211> 176
 <212> DNA
 <213> Glycine max

<400> 36789

cttgactcaa taattctagt gctatgagta ggacagtaaa aattatactc ctgtaatcat 60
 tcagcataac caatgagata tgcactaacg gtccttgggt caacatcttc tcatgcgatt 120
 ataaacttaa cttccaagac cgccacctc gcaaagtgc atacttgctc cccct 176

<210> 36790
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36790

tctgaactgg catcgctggt atatgtcagt gatacctcta acacttgga caaaatgaat 60
 ttctcttttt ttggatgaat tgtttctatt atctcatttg attaaataat ttagagaata 120
 ttattattga ctataataaa ataactgaaa caataatcag aaatatcatg cgcttctata 180
 taaacataaa actgactacc tactatttct actatttaag acaatctctg aatatgactt 240
 aaaacctanc aaaagttatg aagtgtgact atgaattcta gattgatctt atcggattta 300
 ttcaaat 307

<210> 36791
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 36791

actgatggac tcgtaccacc accacctact cagccataat caacaggaag aaaatgtgca 60
 acataataat aaagtttagg acctcacaca ctctactcac gtttttagat ggagtacact 120
 cgtgtttaat gctctcatac gcttatgaga atgtatccct cttgccttta ccaactcgtgt 180
 tactttaagt cctgatggac caatagacac acagatatta aataacgaag acatatgatg 240
 accaacgatt gattggatac acttgactga tcggtat 277

<210> 36792
 <211> 306

<212> DNA
 <213> Glycine max
 <400> 36792

cggaccgcta gacaaggggt gaagtctact tattacgtgt caggcgtcca aatggaagat 60
 cgaactagca caatcagccc acaatcctgc ttgtagcggg tgctccctca tacgcagtca 120
 tgcatatcaa aaccgttggt agattccttc tggatagaga ttatcacaat gctgtcagga 180
 gaattactct attttagctc tgtaataatc aagcacgaaa aaataatatt tgcttttacc 240
 ttggatgtac cccttctttc ttcatttgag gcogtgcctc ataccactt gattcttact 300
 atacat 306

<210> 36793
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 36793
 actcggatgt ccgattcatg cgcattgagat atcgattctc ttgtatttga ataacacaag 60
 ctctcgagag attggaatgg tcataactct tcacaccgat gtccgaatcg ggcgcataat 120
 atgtctagac gctctaaatt gatcaacgga agctctcgat aaattataat gggcataact 180
 tttcactcgg a 191

<210> 36794
 <211> 508
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36794

gaggttgccct ttgagactg caccnattag tganannntc cggccggncg aaaatnnact 60
 attatgaggt ggagatgtgc ttttattact aatattttac gcagagggta ttctgaataa 120
 tagaaccata ctctcatcc togatgactg gacccttgat ctacgaatta gtaagaggag 180
 aaaatacatt tcatgactcc ctgtcaaatt cattgtgtgt aaaaatttag cttgtccttc 240
 tctgtatata aactgggata atatacatct cgtggaacta tgaagaaagg atttttaaat 300
 gtcaattgaa tactatatat acgatgggta atattctact ttgtttcata cacttgggta 360

accaattaac caagtcttgg tagtaggaga attggacatc tcttaataat aatcttaaag 420
 gaatctagtg agattggtca tttacttcgc gctgacgttt taatagatct cttatcaaag 480
 ttaccatctt ctaggaaaaa ttaattcc 508

<210> 36795
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36795

ttctccncaa tttctataat agggggagaa gtgaagtata tttggtttca gcccctttgg 60
 cacttctctg tctttcgaat ctgcttagga aaattgtttc cgtgaagaaa atccaagccg 120
 aggtgcttcc gtaacccttc cgagatgttt ccgtaagcaa atccgtgaag gtttgcgctcc 180
 gttctttacc gttcttcac cgtcttcgt tcttcaacgg gtaagttttc gaatccgaga 240
 ctatcaatth atttcttggt ttttaagctt tcatctttat ttcgttcatt ttttatatct 300
 ttgtctacgt ctttaacgag ctcttaccgt ttatttaagc cgtttctccc ctatacatga 360
 ttaatgattt c 371

<210> 36796
 <211> 319
 <212> DNA
 <213> Glycine max
 <400> 36796

tgcaagtcac aaatgagggc ggacgaataa aatagcacia tatcattcaa aaaaaatgta 60
 caaagactcg tataacatta tccagataaa acattaaaag aacaaatgag tagaaatctt 120
 ttctgcatag ccaaagaaaa tctcatagta tattcggaca ttttaacaaa cacgtagctg 180
 tcaacccgca aagtagtaca aaataaaatc aaatagatat ttagctatth ctccgtaacc 240
 catcaatata gccacaccaa aatctataga acaatgaaaa ataataagat catatgaatg 300
 aaacatttaa agaaaaata 319

<210> 36797
 <211> 199
 <212> DNA
 <213> Glycine max

ttgagtcccg taatatatcg aaaagctcga atgtgaatgt agaagctctg agcaaattca 180
aacgacaata actttttact cggatgtctg attgagtccc gtaatatatc gagacgctcg 240
aaatggaata ccgaagctct gagcaaattc anactacaat aactttttac tcggatgtcc 300
gattgagtcc cgtaatatat tcgagacgct cgaaattgaa tgtcgaagct ctgagcaaatt 360
tctaacgaca ataacttntt actcggatgt ctgattgagt cccgaatata 410

<210> 36801
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36801

gagcgtctcg agtagtacgg actctattat attccgagta aaaattaatt gtcgggtggg 60
attgtctcaa agattcaaca ttcaatttcg agcgtctcca tatattacgg gactcattca 120
gacatccgag taaaaagtta ttgtagtttg aattatctta gagcttcaac attcaatntc 180
gagtgtctcg ttatatcacy agactcaatc agacatccga gtaaaaagta attgtcgatt 240
gaattggctc agagcttaca cattcaattg tgagcgtctc aatatattac gggcctcaat 300
cagacatctg agtaaaaagt tattgtcggt tgaattggct cagagcttc 349

<210> 36802
<211> 251
<212> DNA
<213> Glycine max

<400> 36802

tagtcaaaac gaacaaagtg atgtggcgct gtctatatat ttggacaaac aaaacttgag 60
caaatagagt gaaccttacc tctgctaagt taacaagttt ccatcgtatt caagcttatt 120
gtgtaaacac tctttgagtg attagaatac atattctatc aaacatttat tatttgtgaa 180
agccaagagt ggctttgcga aataaaatac ttaggtatta atctcagggg aaataacggt 240
agtgacaaaa g 251

<210> 36803
<211> 381
<212> DNA

<213> Glycine max

<400> 36803

aacgaccacg acttaatcca acaacattga tgccatagta ttttgcgaa cccagcttac 60
 attcgacgtg ctggaacatt gcacaactac acgcttgaca cagtgccttg acagagctca 120
 tctccacccg cagcacaaaa caaattagtt ggaaaaatga agataaactg tgtaagcta 180
 gacctataaa cgtacaagaa gatactgtca gtttgtttca ctaactaaat caaataacat 240
 gttttttagtag cttatatata tcattaagaa accagtagga cagtaccta aggaagtga 300
 ttgtctttta atcgagtcag aaaccagtat atatcattta agatatgtaa gtgagtggtg 360
 tcttttcaga cgaatgaagc a 381

<210> 36804

<211> 191

<212> DNA

<213> Glycine max

<400> 36804

agaggttcct ccgaagcgga gtggaggctt cttcacactc cagacatctt ctcacagagc 60
 gggtcggtca gatcatggat aactcgctcg tgaagttgca aaccatattt cgagaagatc 120
 caacgggttaa tgaaggctgg gcagcatttt taccgaggca gttcatgta gctctctcta 180
 gaagcttcat t 191

<210> 36805

<211> 251

<212> DNA

<213> Glycine max

<400> 36805

tgcaaacactt atatgacgtg gtgcagctt ttctcttcta tagaataatt atgaccttgg 60
 cggcagtaga tacaatccag gttggaggaa tcattccaaat ctgagataga caagtcctcc 120
 acaacaacat cagcctgtcc ctcttttcca aatgctact ggtccaagca agccatatgt 180
 tcctcctcca atgcaacaac aacagtagca gtcacaacat agacaacaag caactgaggc 240
 tcctcctcaa c 251

<210> 36806

<211> 529
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36806

agaggggtttg atacgatacg actcgcannn nctcttnngn ttagacnacn caaccttgta 60
 gaaccctaac gagaggagtg cgtacgcaga ttctctngtt ttgtccgctc ggagtaaact 120
 ggggagaagg atatgtttgt tactgtcccg actattctac tccacaccat agataacacc 180
 tgtatacgat gtcccgacag tggctgtgag aggcgagatg cagaattaac ctaaacaatgg 240
 ttacatcttt gaagatgctg gtagatggct tgacttctca ataacaagat ccatttggtt 300
 gaagaatgat tattatttta taaatgtagc accactatat ctattatgtg gcgatgcacc 360
 tattaacgat tgaggtggcc tgtatatgtg aaatttatat ccatgcatga tgtctatcac 420
 atttggaaca aggcgctatg tgaaacaata agatattctt ggtctcgat aggaggaaca 480
 ataatcgat ttattattat tgtgcacacc tctggccatg ccaacgccg 529

<210> 36807
 <211> 235
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36807

catgtnttgg ttgattacca taggattatg gtctatcagt atttgtaatt taaaaacaca 60
 cttagaggta atttagtttc atacaatcaa nacaggaacc agtgctcgac agatattatg 120
 tttttggcag aatctgagct ttaaagtgtt acaaacaagt tataacatca ctataatttg 180
 aaattaagtt aaagtntaat gtattaacct atggaacatc aaaagagagt atttt 235

<210> 36808
 <211> 216
 <212> DNA
 <213> Glycine max

<400> 36808

ccttcttttag tggacgtagt ggtggaagag acttccttac tccaccctac tcttctcca 60
 ccatgactta gggagttttt cttttcctat ctcttcttt gctgttatta cactgggtctg 120

attctctttg atgatttaat tgtctttaat cttttaattg tgctacattg aggacaatgt 180
gttgtttaag tatgggggga gggggggggc tctctc 216

<210> 36809
<211> 342
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36809

cttggttca tgaacactga tgtgtgatac attgttggtg gggcggcag aggtggtgga 60
ggacaagatt tgtagaagcc cttcttcctc accgaatcct ctgcgtttga agacaacatt 120
ataacataag tgttngaaga caacattata acttcagctt ttctattgga attgcttgaa 180
aatccttgag aaattggtga cctatttaga gattgaacat ctgtatcaac accatcagct 240
tcaacttctg catttctatt ttaattgctt gaacaccttt tgaagggtgt gacctatnta 300
gatattgaac atcaacatca acatcaacag ctttaacttt ct 342

<210> 36810
<211> 256
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36810

gagtatatct ganccantaa aaaccccgna nnagagggaa attttttcat gaaatagggc 60
gtgaaaatcc acccctaaaa catggcttat agagcggttg tcttatctat aatggtgagt 120
aaaaaatacg gctcaggttt taaccatgga cattgcagcg actttattca ttaatatntt 180
tagactttat gaaaaaaact tggcggttaca attggattaa aactccaaag aatttggcga 240
aactcccaa aatacc 256

<210> 36811
<211> 282
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36811

tctagtagga attatggtgg ttgagtggca ccaaactcat gatgactttt gcatatcatc 60

cgcaatcgga tggccaaact aaagttgcta atcatattgt tgatcagtac ttaggtgctt 120
 ttgtccatat aagaccatca gcttgnggggt gtttcctatt atgggaagaa tggtcctaca 180
 atacatccct ctattcagct acaagaatat ctccattcga aatcaccttc agcaggaagc 240
 cacctaattt tcctcagtat atagtatgta cctctaaaat tg 282

<210> 36812
 <211> 241
 <212> DNA
 <213> Glycine max

<400> 36812
 aactaatggc gtgcttgga tgccttcga atgccaatcc aataaaagaa ggattggtgt 60
 tcaacatgca ttggaatgga agaatgctcc agagcaaacc cacactaagg agtgacataa 120
 ggacgatggg taaagaacat gtaatgcacc ttattaaatg tttctagtaa tctataacag 180
 cttgtattga atgtttctta taaatatttt ctctttogat acaaattttc taacttttgt 240
 c 241

<210> 36813
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 36813
 gcccaacgct gtgttcatac totgccagaa cctattatgt taatttatga tctctatcag 60
 acactatgct agatggcaca ccatgtaatc tgacaatctc actaatgcac agggagggtca 120
 acttctctaa ggaaagccta atattgatgg ggataaagtg tgcgaatttg gtcaatcttt 180
 caacaaacac ccaaatagaa tcaaaacctt tgtggctctg ggtagtccta caacgaaatc 240
 catggagata ctatcccact tccacttggg tatctctaaa ggttgtaact tacttgaagg 300
 tttgtgatat tctatcttag ccttttggtg gactagacac gcatacacia acttgctacc 360
 totctcttat gttgggcccc aaaacattac ct 392

<210> 36814
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 36814

ctatacatgg attctggtat tgtgccattc tatttattat gatagatgtc aaggtttgtc 60
gagttatggt actcaagtat gaaactaggc aatccgccag tgaagacatt gagatctaaa 120
gcaagatgag ttaaggcaag gcattccaga aacatattct tacatgcgaa tccaactacg 180
aattagttca gccagggtttt gttgatatta ggcatagagg ttaatgtaaa tataggaaaa 240
atataactat atggtgtggt ccacgtacgc tgtggtatgt aatgattata attgaattcc 300
ttgttgttta aaccaccata atga 324

<210> 36815

<211> 371

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36815

gatgtngacc acaatcgtgt gggggatagt gatgactaag atgatgtcgg acttgaagat 60
gaggaggatg tggattctga ggtacacacc gacaattatc gagattatga tgatttttgg 120
attccagggtt tctttaaaga ggaatgtata actatcgata ccatagttga tattagacag 180
cttgacatgg aaaaaattac cgttgaagat gtaagcaagt tagattnttg tgactnggag 240
atagcttatac ttttctactg ttggtatgct taaattactg gctttctgtt aggaagagtc 300
atattcttag aaacacatgt agggaaacac tgcaacanna cattgtttgt tatgtgctgt 360
tatngagaga t 371

<210> 36816

<211> 374

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36816

atccgatcat ggaaggactt ggcaactgcc ttcattatgc attaccagta caatacagat 60
atggcggccg atcagaacca gcttcagagt atgactaagc gagagcatga gtccattaat 120
gaatatgccc aaagatggag agatctcgca gcccaagtcg taccgcccac gacggagagg 180
gagatgatca caattatggt agatacgtta cccatgttct actatgaaaa gctgataggc 240

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36822

gctactgact ctaccaaagc tgttctccaa aggagtntgg caattgtgga ggagaacaaa 60
ctgtggaacc aagaggtggt gcaaaagggt gtgtccttag aggtggaggt cgccaagtag 120
agggctactg ctacagacttt atgacgagtg gagtgcctta aggtgggctaa tgccattgat 180
gcttttgttg aagccgtana agtgaaccac taactgtagt tgcgcactct gttagatggt 240
gatgac 246

<210> 36823
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36823

atacgcactc ttacagagta tatgtggntt cattcatagt aaatgctntt atttaccac 60
gatccaaggg ttcataact ctctttgctt ttttaatttt gatatgaata tccttcgata 120
tgtccctga attcctacaa tcacaatcac taattgattt accttctgtg tcattctctt 180
tcagtgcatt ttgtggctta gccttcgac cactttcttt agagcttgct aatatcgagc 240
aaccaatatt ggctagacaa actagtttct catgacaaat atcctatcat ggaccatatt 300
acttgcataa 310

<210> 36824
<211> 181
<212> DNA
<213> Glycine max

<400> 36824

atctaagtgt gcattctttg attgctcgaa tacattgtgc tttttcatcg aaggtcatgc 60
caaccttaag tgcaccagtt ggaggttgaa cacggctttg ttgctgaacg aaatgggtggc 120
gatcaatgta ttgtggtaga tggctgaggt tcaattccac tcgatgccta ggttgatgat 180
a 181

<210> 36825
 <211> 178
 <212> DNA
 <213> Glycine max

<400> 36825

aatacattcc tcaccaaata aatgcattta aaaccattta ccaattagcc tatctgcca 60
 agacacccaa tgccaatttt tatttgattt aggacggcca aggtattgct actcactaga 120
 atattgaact tatctccaat gatgaaatat gttgacacaa ggaaccaga aaaaaggg 178

<210> 36826
 <211> 280
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36826

cgaggacttt acccgttgaa gatcgaagaa cgatgtttat ctaatgaaga acgtcgaaga 60
 acggttgaga cctttgagag attcctcacg gaaaacgtta cgaaaacgtt tcggaagcgc 120
 ctcggcttag attttcttca cggaacaat ntttccaagc aaattcgaaa gagagagaag 180
 tgcctaaggg gctgggaccc tntcttctta tttcctcccc tatttatagc aaaatagggg 240
 aggtggttgc cgcccagctc gcccaggcga gctcagctcg 280

<210> 36827
 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36827

agtgatttg tgcaaccata gattgtacat tgagtatcct ctttgatatg ttctatagtt 60
 gattctgcgt gaatttctaa ttatcataac atatgattca tggatatgat ttatgcattc 120
 tttctttctt tacattgtaa gccactgacc aaaaagatat ctcgatgtat attgttttat 180
 catttgcaaa gccctatgag ccaaacactt catattttgt tggaacacta acctatgata 240
 aaagtttcct accttacctt agttaggaag acaaagagtg tntgttgggg aattctatca 300
 tttgggggct aatgtgatta aatactctat ttttaaagt 340

<210> 36828
<211> 515
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36828

agatttcac ncacganatn gcgcacatn ttagantacn cnaccncang anacgcagat 60
cacactatgt ggggtggagcg cttttttatt tttgtttntc tcnccaccga ccgcgcggga 120
gtgttgctag aaaaacacta caccacaaaa caacgtactt aacactcaca tctaacacag 180
aagattgtgg ctccattatt cctatcatca caatactggg atgtagaaaa taatctgtat 240
gtcaactaac tctatgatgc cattgtctcc acctaaagct catcttctact atcatattca 300
atggctatgg tcacatcaa agagaggcta gaactctctt cattcacagc gatctctttc 360
actttgattt cacacatggc gattatctca ggcttgggaa cagaaactat ttcaattgat 420
aagacatgac cttcttgaga ggaaccatcc ccaactgggag gcccgccctcc cttaaattcg 480
tcgctacacg ctttgagaga gaatcccttg tccag 515

<210> 36829
<211> 178
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36829

agatcgccgg ttagacactc acctcttctt attttttatg ngggagattt gntggatggg 60
tgtgggctta cttcctgtgt ggagtaaagg cccaaatgag aaggtccgat ccatcttgtc 120
tcacttatat aagtggagag ggattatatt atgagagaga gagagagact tatttggtg 178

<210> 36830
<211> 230
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36830

tgagattaan aatgaagatg tcagcttaat gattataccg ttttgctaaa gttgtagaat 60
tgacagcaac ggaacatgaa atttgggtaa ttgaagttag ctaaaaagtt tccgtgtggt 120

tgagagcctc aacattcaat ttcgagcgtc tcgatatatt aagggactca atcagacatc 180
cgagtaaaaa gttattgtcg tttgaatttg ctcagagcat cgacattgaa ttgcgagcgt 240
ctcgatatat tacnggactc aatcagacat ccgagtaa 278

<210> 36834
<211> 362
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36834

gagggtccaga gactctacaa gatgtgcagc cttttttgat ttaacctttt gctgaccag 60
taatacacta gctntaactc gctattcatt tgagcctaatt gtcttcatca tgtttccttt 120
aggttgagat aacctaaacc ttttgatttc atattatatt atggttatgc aggatattat 180
acgactgcca atgctattta tctntcttca taagccattg gcccaatttc gatctgtttt 240
aaaagcccta agagcacaaa ggcttgcttc aatcgggtggg ggatctcttt agaataaac 300
tgaacacatg cactgcctct ccaaaaactta tttgcataca tcaactacaga catatatttc 360
ac 362

<210> 36835
<211> 274
<212> DNA
<213> Glycine max
<400> 36835

acgtaccta gaggcgagc tcctggcagt caacagataa aaggaaaaca agaccacaga 60
gcaaggaggc ttgtggtggc tggccagctg tgaattttgt gtaatatgtg gattgtggcc 120
tctggtaatc gattaccaag ggtgggtaat cgattacaag gcttaaaaatt gaagacaggg 180
ggctaagatg gtctctggta atcgattacc aaggggtgta atcgattacc aggcttgaaa 240
acgaggtcag gaagctaggg aagcctctgg taat 274

<210> 36836
<211> 195
<212> DNA
<213> Glycine max

gtnttcgngc canaaaactg anctcaaaat anttacnatn ttgtaaaacc ccatctactg 1140
 ctgtntctctt ncaagctgca cngaccannc angcagttac tcattcattt gcttttagttg 1200
 ctannagagct tcgaannagt cngcacngac ntgggtctaa ntantcgtcn ctgacaccct 1260
 ccaaaaaanat gagtantctgc cantantgga ccgcanaccg tnnagantcn tnantcgttn 1320
 acttataata ggggtnagng acnacgcgn 1349

<210> 36838
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36838

tcgggttgat gaggaaggat atattgtang ggtatttatg tacgggtgag gatgatcctc 60
 aatagcatca tatggttgtg actcacaaaa ttggtgaaga atggtgcaga nagaagcccc 120
 actacttatg ggtatcaaaa tgaaatattg catggtccaa tgggtgagga cacagacgtt 180
 ggtggattnt tgttttcaag gcctcaagtg tgaggccttg ctttgtttca aagaacaatg 240
 agttggggct ttcaaaagta tccccttcat ctactgtgat tatttcacca tcgtagtgca 300
 ttaaccattt gatagatgag gaagacatat tgtgntatag acaaagaata gagaaacaaa 360
 tgtga 365

<210> 36839
 <211> 340
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36839

aagctgaacc attntatcaa tagacacaag tagtgngnta ttcaganaat tagagtatat 60
 cgcgggttatc ttagtgagag tgattctcct aaattcttga gtgattcaag aacaccctgg 120
 ctgtatcaaa ggactttcac aacctttgtg tgttgccctc gctggaaaga gtgattcttt 180
 ccttctatc atctccaccc ttgttctttc aaacaacatt tccagataat cacctctgcc 240
 caaattatct cgtgaccata actcccatth acacactcaa attaagtgat tcttgatcct 300
 aaattgaatt tcaaacgaga tctttcacct cgttttgga 340

<210> 36840
 <211> 351
 <212> DNA
 <213> Glycine max

<400> 36840

gatgcacaca cctgtgagca agcgacgaag ccttttatct tctaacctgt gcgaacgaag 60
 agcgggagag ctccacaaac acggcgagct accaagagac ctccatgtct tacaagggtga 120
 cgacaagcta gctcgatctc gataactcag acatgacaat agctgaatta ctgtatcatc 180
 aggcaaacac ttccaatcaa caacccttg cctttgagtt gccaaatcca aaacctcatc 240
 ttgaacttca gggagactag actgcaccac attccctatg ctatgtctcg ccagctttcg 300
 tctcactcta tgatccatgt ctcaacaaaa tcacagcata cccacaccaa c 351

<210> 36841
 <211> 173
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36841

tggtcctaac ttttaactcg taggtctgat tgaggcggat aatatatcga cacgctccat 60
 attgaacaat ggaagctctt gagcaattca natggtcata aatagtcact cggagggtccg 120
 attcaggcgc ataatttatc gagacgctcg aaattgaaca acggaagctc tca 173

<210> 36842
 <211> 188
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36842

gattgnnggg aataaaattg tgctacgttc taattcagaa ttattataga atcaagggtgg 60
 agattgttgg aaggagtga cgacactgat agaggtaact gaatgacact atttgtatcg 120
 tccagtctag cccttagtgt agaattctatc tcttgtcagt ggtgcattcta gtctattcta 180
 tgtaacat 188

<210> 36843
<211> 262
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36843

actatgcaga gaatatccaa gagaaatacc ttcttcagat ttatcatcaa attntcctaa 60
gtgatgtttg gcattattca atacaaaaca tttaacaacca aagatataaa gatgtgagat 120
gtttgggtttt ttgccattga acaattcata tggagctttc ttataaatgg gtcctattaa 180
agccctattt aaatgtaaca tgcagtggta acagcttcaa ccctggcata ccctaatttc 240
gtccggggac ctttgcttga tg 262

<210> 36844
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36844

cgtatgaact tgtatacgna ccttttgtaa aacgccggcg gagancnacg tagaatgcgg 60
gactttttct aaaccagaat ctacaggggg ttttgtactc ttacccttc accatgcaat 120
gataggaatt tctagatcat catctacgga acaaactagc catacttatt tgttcagtga 180
aaagggtaat tgttctatgt cctgcccgc caacttcaa tggaagaaat cctctgccat 240
ttatgttgta ttcattcagc cgaaggccat tcaccaata ctttcttatt ctgggactta 300
tgcatattta agtggcggtg ccctcagaaa ctctttatg atgtgtatag ctccc 355

<210> 36845
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36845

aggtgactga ncccaccttg tatagacgag cgnagagggn ttataatgag aaactttatt 60
tagaacccca cacaaggggg ggttttacac ttccactcc tgagacatag ggtagatgag 120
tgtcttggtt ataacattta aacatgggat tgcccacgtc cctacattgg tctaaacaag 180

aagccccac aagccttggtg atagcttggg accatagggc ttgtatggac acccagggca 240
 tatggttgcc gattatattt ttggaaccct ttttcaaaaa agctttaagt cccctttatc 300
 caggcgagaa ccaatttatt ctacacccaa tgggactttt ggaattacac tttgaacatt 360
 tata 364

<210> 36846
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 36846

ccaagtaaaa attaatggcg ggtgggattg gctcaaagat tcaacattca atttcgagcg 60
 tctccatata ttacgggact cattcagaca tccgagtaaa aagttattgt agtttgaatt 120
 agcttagagc ttcaacaatc aatttcgagt gtctcgttat atcacgagac tcaatcagac 180
 atccgagtaa aaagttattg tcgtttgaat tggctcagag cttccacatt caatttcgag 240
 cgtgtcgata tattacgggc gtcaatcaga catccgagta aaaagttatt gtcgtttgaa 300
 ttcgctcaga gcttcaacat 320

<210> 36847
 <211> 240
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36847

aagaaaagac taactacggg aatggaatga aaaactatgt aagaatctta cagggaccag 60
 tcttgaaata aatgggaaaa ttccagataa ttatttttgc aagatcctaa tntcacaatt 120
 gaaagcaatg accattcaac aacaaaataa aatatacatt tcaataagtg aatagcaaaa 180
 tgacaaaaat gaaaagttct attgtggcaa cttacaagct tgtaattgcg gcattgtagg 240

<210> 36848
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36848

<210> 36851
 <211> 487
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36851

aaggatggac ngcttagcac gncannctga gatnaatacg ctngcnggag gannaacang 60
 gaagaagatg ggggtggngat tattgtgttg ncgacacnaa gcaaggtctg agagacgtgt 120
 gcaagtttcc tacaaccct cactaggtgg gccattaacg ttatcatatg ctgacgagtt 180
 ccgacaatcc cgcgaaatctc tatctgggcg gaatacgaga atgccacagc tttggccttg 240
 gctaacaatc ggagaaattg tagagtccca ttcaaaggaa gagcaaaccg atccattcac 300
 atggtggcct catggtgtaa agaatatatc gcgctttctc tacactctat tgctgcgtat 360
 acttaggaat actcaaccga gattctacgc tagccgggca gggcaacacc ctactgtctt 420
 gagtactaag catgaatgct aactgttggc cttgtgccgt ataacggtga gacaacgttt 480
 ttggacg 487

<210> 36852
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36852

agagctgagc ctgtatagca acatttataa taagaccggg ccttancnna gaantataag 60
 agagagatgg gttttttctt tttttacagc acgaaccctg gggcgaggtg gatactaaaa 120
 aaaccacccc cctacgggga atggaatgaa aaaactatgt ancgattctt cacagggtag 180
 cacgttcttg aaataaatgt ggaaaatata cctaaaggaa atctcttgac gattcctaac 240
 agtcccaatt gaatagctat gacgccttcc atctcaaaca aataacctct ttctctctca 300
 ttatggaccc acctgcgta cccgctcaca aatccaaatn tagacttcga gttaaccgcg 360
 caccactaca cgcaagccac tgctgccagg caaatctatg cgaagaccta ccaccccttt 420
 cgtaggttcc acacactcct cccattatt atttggatc ctctccatcc caatcttttc 480
 tctctacccc 490

<210> 36853
 <211> 187
 <212> DNA
 <213> Glycine max

<400> 36853

acctgagggg acttatagcc tataccatac ttcccacaat ttcccttagat atttatcagg 60
 cttgttatgc caacgatgcc atttcctata cccatgccgg gttcataact cgctcccaac 120
 atcactaggg ccatcattac cggcgcatga gacagacaac gctgccc aaa gagggagtcc 180
 agggatg 187

<210> 36854
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 36854

atgacaaaaa gctcagaggt gggttcatga taatcaaaca atgagttcca gatgtacaag 60
 atagaatcaa gaacaccttc tggttcaaga ataactttta tttcatgaat caagaatcaa 120
 gatcatgatt cacgaatcta gagatgactt aatcatcatt agtatgaaca agtggttttca 180
 aaaactgagc tgcacatgga tttttctcat atcatgttta ccaaagagtg gttactctct 240
 ggtaatcgat taccacattg ttgaaatcga ttagcagtg g caaaatgttt ttgaaaagtt 300
 ttccact 307

<210> 36855
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36855

atgatcagcc gttgaggtgc ttcacctttg gggacttcca gctatcacct atggtagaag 60
 aatttgaaga gatcatagga tgccctctan ggggaaggaa accatacctc ttctcatggg 120
 tctatccctc gttagctaga atttccaaga tagtccaaat ctgcgcgcga ggaattatac 180
 cacagggagc aagtcgaaaa tgggggtgggt ggaataccga gaaaatattt ggaggcaaaa 240
 gcaagaatct tggcaggtaa aggcgagcgg gtcctgttca tagatattct cgactgctg 300

tccaatctac aaatctcccc cccaccccc ataaaaatga ataaaataaa gaaaataaca 300
gaaactttac aaaccatttc agaaagaaaa aaagcgctta atttaaaatc caattgaaaa 360
attaaatat 369

<210> 36859
<211> 360
<212> DNA
<213> Glycine max

<400> 36859

aaacacctct ccgtcgaaat gatttcccca tgtcggatag cttaaaggat caatacttgt 60
atatacttct ttccacaatt ggaccatatt tatagcttct gacgaatgtt cttgatgttt 120
gctaattgtt caattatgtt aggatttacg tagacctaat gtaacccaat tccaattgta 180
atactgaacc gatacttatg tcgtctccga agggaaatagt gcaaggatga atattcaaat 240
taaaaccttt tggataaaaa tattaccgtg gattcatatg ttaaaatacc tagaactaac 300
actaatctta accacaaata aaatatatat tttgctagag attaattgtgc ctgaaattta 360

<210> 36860
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36860

ctacatgttn ataaaaggaa ccgcgggtgt ttatataaga atgataaacg ctctaccang 60
aggatactat gtcaatggaa ccacgaccaa agtaaagaaa attatagaag atgtagcagt 120
tagtgaacga gaccatgatt gcaaccgcac ctgcctaaag ggcattcaca aagaagacat 180
tgaagatgaa tccttcaaac aacaaacaca aatgaaatct atgatggagg ctatgatgga 240
gaatgtaacc aaaagcatat tataaaaatg taatcattga tattgccaaa gaaatcgatt 300
ctctcatgtg aagagtgtgg aggttaaccac cataccttct actatatgaa gaatagtacc 360
ttagaagcca aattcatgag aaaatgcgct acataatt 398

<210> 36861
<211> 438
<212> DNA

<213> Glycine max

<400> 36861

tcaagtcact cccgcattgt atgtctagca ttctttgtat gttggctctg ccctttgtca 60
cggggaggcg gaatgtccat atcaccttct taatcgtaca catgggtgcac tgcgccccca 120
tatgcacaag taataagaga taattctccg ggctctcgtg tccgctaaat gcattcatat 180
catgcaccac ataagcatct cttcataaca tcataatgga catatcctgc atttgtccgc 240
tatcatattc cagcctcaca ttgtgcatga gtcatggcat catcatgcat atgcgttcaa 300
caaacttttt gatctgcaac attgcatacc attagttttc atgggtggctc atccttgcgt 360
tttctcttac agaacactaa caaatgaggg ggaagcgtga aacttccact acattcttag 420
ttcatgtgta ggcaccac 438

<210> 36862

<211> 379

<212> DNA

<213> Glycine max

<400> 36862

gttcagcccc ttacgcactt gtgtggctct ggatattgct gagaacaact atttccgtga 60
agaatatcca agccgaggcg cttctctaac gtttccgtaa cgtttccgtg agtaattacg 120
cgaagattct cggccattct tcaagattca tcgttcgttc ttcgttttct tcagtcttca 180
acgggtaagt acctcaaacc aagcttttca attcatttta tgtaccctg gtgggtccaca 240
tttcgtttca tgtatttcta ttctcttttt catttacttt ttatacccc ttttgacgtg 300
cttaagccaa ttatttaagt catttctcgc tgactctatg aataaaaataa atttccaccg 360
atcgtttgaa ttgtatcat 379

<210> 36863

<211> 411

<212> DNA

<213> Glycine max

<400> 36863

gagatgagga agtgtagaaa ggtgaaactt gctgctttta ttcgttgacc acagagtggg 60
acctggagat atgtcgcggt ggtcaagaga ccttgccggac gtcaggtggg gtgctattgc 120

ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcagtcag tgagaacctg 180
 tgatgtacct aaacaggcga gtccttagca gtcaacagat aataggaaca aagaccacta 240
 agcaaggagg cttgtggtgg ctggccagct gtgaactttg attgatattg gggttatgac 300
 ctctggtaat cgaataccaa gggtaggttaa tcaattacaa ggcttataaa tgaagacagg 360
 agactaagat ggtctctggt aatcgattac cacagggtgt aatcgattac c 411

<210> 36864
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 36864
 tcattgatcg tctcgatata tacggttcta ttttacctct gaggaaaaaa gctatgggtgg 60
 tttgaatttg ctgagagctc caacattcaa ttttgagcgt ctcgatgtat tactggactt 120
 aatcagacat ccgagttaat agttattgct gtttgaattt gctgagagct tcagcattca 180
 atttcgagcg tctcgatatt ttacgggact caatcaaaca tccgagctta aagttattgt 240
 tgttggaatt tgctgagagc ttcaacattc aatttcgagc gtctcgatat ttacgggac 300
 tcaatcatac atcc 314

<210> 36865
 <211> 258
 <212> DNA
 <213> Glycine max

<400> 36865
 cttctctagt cttcaccata tcatataact ctttggcggc ccagggtccca ccctcatatc 60
 tactttactc cacagaagcc gcaaacctac ctgtcaaagg gaccctaact tctatggcga 120
 gcatgggtgc tatgccctat gatagtcggg gaagatgtca tgatgagaca catacatctg 180
 cctaaatata gggacctatg accggcatta cgaccatata gatgctggat accctctccc 240
 aaatggtatc gggcatac 258

<210> 36866
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 36866

cgccaaacct agaaatatag acgatgtcat gtcattgta ttaagacatt aaattctcct 60
 gtgagcggcg gagaagctat aaaattaaca agcactctaa agaaatatcc ttaaacaaca 120
 ctgaagatta tggatgattc tgattaggca aagattatag atggttctga tgccatcaag 180
 ttgatagggg ttatcataat ctattcagtt tatgaaatat tgaagcacat acaaattgta 240
 tgacctatct tttttcatta tttagctagg tttgtctctt atcattaatt aactatggac 300
 aatctgatta tatctgattg cgggtgtcaca aatatggggc aagaaatcat cggatgaatct 360
 tctcaccacc tgtgttgaat tgtataattg tgaacactgg attactatac tag 413

<210> 36867

<211> 385

<212> DNA

<213> Glycine max

<400> 36867

acaatgcacg cataaaccga ccattccctg ttgccacact ccaactgagc tcacgtactc 60
 ccacgtagcc catatcctcg tttctctcaa caccgggtcc ccattcaatcc tccaagctt 120
 ccacaacatc caagaaaaac aacattcaaa cagcacaagc tatcacagcc aagcaaaaca 180
 gagtaaaggc agataactct gctcaacaca tcaacaaaaa tcacagcttt tctcacttaa 240
 agaccacagt aacaattcct tcgatccaat tcgttaaccg ttggatcgac tccaaaatgt 300
 tactggaagt ctatagtga taagcctaca ttgtaaccgt tgggatctac tagaaaacat 360
 ccagaactca ttctgtacta ctctt 385

<210> 36868

<211> 537

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 36868

cgctgctggg acttgcannc ncanncnntt tagttatann acccgngcgt gcnggcactc 60
 cncngtatat aagagaggat agaggannct attgcanttg gcacaaacct acacacanng 120
 cccgaggagg aattgtctaa aacactcgcg gcacctcact caggatcgag aaggacgcat 180
 ataccctctg cgtgtgacct gccaatcct attacatcca cagtttgcta cacacaccgc 240

gtcaatggtc attaactgat cgcaataacg caatctctct tccttcaccc accacccac 300
 ttaatccact aaagggcg tccctatcat caactctcaa tagtctcgtc tacggtact 360
 gttcaattga cacacactca ccttgtaact aaacaaaat caccacccat gcaatggatt 420
 ttgcaccgag aaaacccgta caatcacccc aattcagagg ctatgctgac tggctccata 480
 tctctgataa ttgaagtgac cataccccgc caagttcaca ccctcatttc ttgaaag 537

<210> 36869
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 36869

gtatattaac atacaacttc tcttgtaaac aacatcatac atcattccac atcatctagc 60
 cattcaatga ctgaagaaag actcttaaac tttgaatacc tatcacatat ttggccagag 120
 gaacaccata tgcaagcgta attaagaggc cacctcgtaa ttacatttga taacgtatta 180
 ttagagttgt ctgagaggca catggaagtc aagtcaatct tgccatgatg agatcaatat 240
 cacttggtga cagaggactt acctctaccc caaacaaaag tcactactct taagtctatc 300
 caggggtgaa gaaacgaaga acctctcttt ttacag 336

<210> 36870
 <211> 153
 <212> DNA
 <213> Glycine max

<400> 36870

ttggagagct atctgttgca tgtgatgatc ctagggcatt tcttcttttg aagaattata 60
 tacatgagac acaatcatgg gagcaatttg ttgcatctgt gagaatgaat ttgttattct 120
 ttctggaagc tggatgcatt tttggtcttg ggg 153

<210> 36871
 <211> 188
 <212> DNA
 <213> Glycine max

<400> 36871

ggaagatcat taatccatcg ctgatccatt cataatgtac tacaaaaatc taatccatac 60

agaactatat tttataaaaa acaagggccc aactccatcc attaaatata atcctcctaa 120
 aacgaaaagg aatatctata cacattaata cacccaaaca ccataaaatc ctatattcgc 180
 ctcataaa 188

<210> 36872
 <211> 504
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36872

agatgtggtg cnttgatcgc cgcaccantt tgtatataac cgctgcatg tgggtggacg 60
 ctaaagtatg tgagaggtac agatctatct ttatgcccta caatagagtc gccaggacgt 120
 gtgcgtgtta tgtgacatac aacgacctat ccgcatactg cttgtaattc atcctttata 180
 tgagacgcat agaactgacc ttcttcacac atatggtgtc aatacacatt gatgaaatct 240
 aatgatggcc attatcttct atccgcacct tatatgagag agagctctga ttggtaaaaa 300
 cagctcttaa ctcatttgat atgtaaatac cagctgatat agtgaactgc ccatgatacc 360
 atatctgtat ccggttatgt taggtaaata tctattcctc acaagacatc attgaggcat 420
 acttgttgct ggctgctgaa tcacttaggc gctgtacaaa ggaccataa aatccgaatt 480
 tttggtgttt taaccataag ctct 504

<210> 36873
 <211> 312
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36873

tgtgtaaccc accattatta gatgagtgat aatctctttc ttctgcatca gaggtgtcac 60
 ttgagcggcg tgtctctcca ccttcgcgcg cattctttga aagattcgtg cccctttttg 120
 cacatgttct gtagatgcat cttttccgga gccatatcat aattgtactg atactgccta 180
 acaaaagcaa ccattatgtc cttccaagaa tgaactcggg aatgttccaa gttagtgtac 240
 cangtaacag ctaccccgga aagacattct tggaaaaatt gatcagcagt gcctcatctt 300
 ttgctatgcc cc 312

<210> 36874
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 36874

atcttattga gagtgattct cctacattct tgagtgattc aagaacacct tgccgtatc 60
 aaaggacttt cacaaccttt gtgtgttgcc ctcaactggaa agagtgatac tttccttctt 120
 ttcattgatca cccttggtct ttcacaccac aattccagaa aatccacctc tgcccagaat 180
 tatctcgtgg ccataactcc cattttacgc actcaaaata agtgattctt gaacctaaat 240
 tgaatttcaa aacgagacct ttcacctcgg ttccgaatca cctcatttgg aacctgtac 300
 cttcattatt gccatttcta tattcttggc cagccaccac ttaacctatc gtttaccatc 360
 cca 363

<210> 36875
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 36875

ttcttatcca aggtcatct aggaggagaa gtccttctt cctatgctta ttccttagtg 60
 gatggcgct cctgtcacct attctccttt gccttccgct gcatctccat gggggaaaat 120
 caccattaat ggacctcata gaagctcaaa gatccagcct ccatagaagc cccacaatca 180
 agcttccatc acaaagtcct gtgatcaatg tgggaaatcc cagggccccg ttggacttat 240
 ccagatccaa aaggtgcctg gtcagtgcc aacctgcaa tagataaatg gcatcaccaa 300
 acaactgagc cacgcgaatg ctcatccagg tcaagacggc gtacaccaac tgacactttt 360
 acaggggg 368

<210> 36876
 <211> 385
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36876

gggggatcaa caaacatagt tggatgaacgc tgaattgatg accttgaaag aagaatccat 60
 tntgttgctc gttattgata tggcctcatt aaacatcttt taagtctgat gaagaagtat 120
 gtaagtctga tgggccccctt agtatgctga aatatcttcc ttgctccag acttgcaatc 180
 atagcctcat agataaacac tttagtactc catatgcttc ctccattctt ctaagtttga 240
 attcatgcat gacattaggc tgtgcaacat cgatcatttg ttcacaaact ttaaactacta 300
 gctatggata agaacatttt gcactaggat ctgtttcaac aatatcatct tcttggcttc 360
 taaagtatgc tncaataaca tattg 385

<210> 36877
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36877

ccctagggaa tgaggggaat ctatatggct gagtgtaact gaaattgttg gcaacaaaaa 60
 gtcacccccca acagccaaca agtcagccac catttggctt cccaaaaggc tgatgcctat 120
 gttgcccaatt gtgcccttat tacaacttga actaaagccc ttttagttga ttaaccana 180
 acatattttt ggtcagccaa ctttacaagg attgggccat tatttagaca aactaacac 240
 tctaaaattg aaataaagtg gtgtcattta gtctccatt tgggccatga tacaactcac 300
 aaccttgac ttttctcctt gaaacttggg ctgtattca aatagtatgg acagcac 357

<210> 36878
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36878

tatagattgt tagttagtnt ggggatgagt tactactact agggtttgga atgcagctag 60
 tcttgcttcc aaagctgtgt caaaatattg ccttattttg ttgagttgtt gtgtggaagc 120
 atctaacttc ttcttcact gttgttttgt actccttct tccttcacaa ctttagtagc 180
 ttctattgct gattgcttag attccctaac actgttgagc ttctttctca gttcctgaag 240
 tctcattttg gccttattgt tttggattcc ctaagtcatt atagttaatc ttgtttgaaa 300

accaagtaac ttctcttacc catttggtgct actatgatta tgtttaaaaa atatagtcac 360
tcattgctcc tatgtattag acacttagtt tcaatttt 398

<210> 36879
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36879

gtcgtcattg aaacgccctt ggataancgg ggtcttcnc agcctaggag acactttttt 60
ttaatctgac tggacctggg ggattattaa gataatgtcc attgggtttg tgttaaaaat 120
ttaatgatag gctaacatac ccacgtctga tcaccgataa acctggtgtc atcttttatg 180
tcttggtgcg tttttaaact tatttacagc tggacttcaa cccattgatg tataacttta 240
aagtttctcc ataattttca tagaacaccc tctcttatgc taaagacaat attgtctctc 300
cctcttccca gcctatgcac tcttctttcc tatgaatggt atacccttag gctccttggg 360
acg 363

<210> 36880
<211> 251
<212> DNA
<213> Glycine max

<400> 36880

accctgctgg actgcattct gtcgggaaat ttccaccacc cactatatct ttagtcagcc 60
aataacatac tttctccttt ccaccaccg agatatccac ataggccatc cctagatcta 120
ccacaaagtc tgtttaccgc acttcctatg acgaacacca cctgtatcac aaacccaaaa 180
caccaaccct tatgtgcaat ttgcagcgag aaagcctgta gaattaaccc caattccagt 240
gtctatgctg a 251

<210> 36881
<211> 193
<212> DNA
<213> Glycine max

<400> 36881

ttactatatg taccaccccg ccacaagaaa cacaatagtc acaagctatg cgaggctttt 60

tacctacaca cccctataat agctaagcgc acaccccatga caaaatacat gacaatacat 420
aaaaacatgt cccctactact 440

<210> 36884
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36884

catgcaacgt aatgcatgca gggtcaccag ntagttataa cggcttaaga ccattattct 60
gttattggag ttaattacag gccataatgg tgcaatacca ttgtataaaa ggagatcata 120
ttcatgaata aagcagagaa aaccattttc cagtaatagt ttagcgtaga tacccttctc 180
ttacctctcg ctcatatcaa tcttggaatg gtataattaa gatcagttat gcgccggctg 240
tgcggtgcat ctccattga taaattaagt ttcttctcca gggactcccc ccacaaaaat 300
atagaacaaa aaacaacata cgacattgcc aataaagtga gtaaaatttg tgcacgcaa 360
gcattccaca gccacagtga cgacgccata tatattccga gtgaaacctg atattcta 420
cgtatcgtgc ttac 434

<210> 36885
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36885

gatgttgtct tcgtagcacc ntttgaataa aaacngccgc tgtaacgnaa tgatagttag 60
agcctttttt ttctcagcac acgaccgggg gctgttttta gatagccctc tcctctagt 120
tagaaaatta tcgtctccga ctccatcatg atgtgagatt aacctgcatt actctactat 180
ccaactgcgt aagtaagttt gctagttatg tgacaccatc ataactcgta ttatgtacgc 240
ttgcttgagt agccaacttg atgcgaacag atctattttt catcatactg tctgattagt 300
cgatacttgt gcatgccttt cttttcaaata aaaattcata tgctaattga aagctctctc 360
tccgatgatt acctctgatt tgaattaagt catggcttca cgtaaatatt atttctattg 420
ttgatgtatg tctggaatac cttattacca gtatctgatg agtatattgt atgtntctc 479

<210> 36886
 <211> 135
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36886

gtnggggtta cctgaccgag aaaaattaaa aaggtaaagc ccagaagaaa agaacagaaa 60
 aagaaaaccg gaaaaaaagg agaggaaaag gaaatgaaag gaagaaggca aaaagcagga 120
 aaaaagaaag aaaaa 135

<210> 36887
 <211> 176
 <212> DNA
 <213> Glycine max

<400> 36887

gtgcttcctt ttacctgac ggtaagattt taacaccggg gaaaccagcc ctgacagttg 60
 attaaaaagc agtattatct tctgcaaaca ccccgaaata tcccataagc agaacgtaat 120
 ttttcctaca aatatccaat ttactagcac taaaagcttc tagaaagtct gatcgg 176

<210> 36888
 <211> 229
 <212> DNA
 <213> Glycine max

<400> 36888

caccaaggag ttaaaaagaa tagatcacc cagaaaaagc caaaaaaaca gccgccggaa 60
 aaaaccacc catgcgcggc ccaaaccaag tttatcaagc caaaagggca aaaagggcga 120
 aaaaaggaaa aatatgtcac cgaacaaccc gccagcacca aaaggaaggc actcacaaaa 180
 gcacaattta gctcggccaa ctgatgcgaa caacagcaga aaacacacc 229

<210> 36889
 <211> 345
 <212> DNA
 <213> Glycine max

<400> 36889

atgtggcaac aaccatcact cataaagttg gataaatgct caatcaatca tgctccacat 60

tatgcaatTT cacaTctgac agtgaaggaa ttattgatcc ctatgaccag ataatgagac 120
tacaatTTtca tctcagctct ggcaccgcaa caggTtgTtg atcaaatcct tcaaatacca 180
ttgacaaatg agTTttgagga tagaaggatc tatagatata ctaaagatgg ttgctacaat 240
gtcaagagtg gatatagact cTTTgtgaat tattTTtaagg gcattaatta taatgTTTTt 300
gattgtcgac gtctcatact tgtactggaa tatccagatg aatca 345

<210> 36890
<211> 384
<212> DNA
<213> Glycine max

<400> 36890

actatcgctc cagtgcTagt gTTTctatc ccgagaaaac cTTTtgaggT gtattgtgat 60
ggatcaaaga tgggtTTtagg aggagtattg atgcaaaatg gccaaTagt ggcctatgct 120
tctagacaac tcaagactca tgagaggaat tatcccaccc atgatctgga gTTggctgct 180
gtagTTTTTTT cCTTTtagat gtggaggcat tacctgTTTg gctctaagtt tgaggTgTTt 240
agtgatcata agatcCTtaa gtactcgTTt agtctgaaaa agTTgaacat gcatcaaagg 300
agatggTTtaa agTTTcttaa agattatgat tTTgagctta gctaccatct caacaaagcc 360
aatgtagtgg ctgacgcCTt gagt 384

<210> 36891
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36891

ctTggcattt aatagTTTTa agcgtaaaag ttagTTTTaa ttctgTTTga aattatcaat 60
cgtacatgTT ctctcaacaa tgcttcattt cagaacttaa ttcaggctaa cattagTTcc 120
ctgtgttcga tactcggatt catccgTTTT aattTTTTaa tacttgacga tccagtgcgc 180
tttccggcaa accgaatttc cTTtgaatat atgtgaacga agaaaaagTg gaacaaaaag 240
taactgtagg ggaaatccaa caactactgt aggagacatg tTntctctt ttcatttctt 300
tcattatttt tTTtcttctt tctctcttta ttgttctctt ttcattctga cttatttctt 360

gcacctcttt tttacctctt ttcttttctc tc

392

<210> 36892
<211> 293
<212> DNA
<213> Glycine max

<400> 36892

gggggggggt tgaattaaga tatccccaac tgtttccctt aattaaaaat ctattccact 60
ttttactcaa gttatgaatc cccttaatga caatcttctt aaatattaat tcgagcaaag 120
caacttgatt atgaatataa agcaataata tataaaggag attaagggaa gagaaaatgc 180
aaactcagtt ttatactggg tgggccacac ccttgtgcct acgttcagtc cccaagcaat 240
ccgcttgaga gttccactat cttggtaatt ccttttaciaa ggtcttaaca cac 293

<210> 36893
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36893

aatgaagaac gnccaaaaac nagttagttc tttgcgaaat tcctcaccca caacctcacg 60
gaaacgtttc ggaagcgcct cggcttagat tttcttcacg gaaacaattt ttccaagcaa 120
attcgaaaga gagagaagtg cctaaggggc tgaaccctt ccttcttgcc ttctccctt 180
atztatagca aaatagggga ggtggttgcc gccagggcga gctcagctcg ccagggcgag 240
catggttgct tcctccagaa gcaaccgcct tctggaggaa tattccggag ggcccatgtg 300
ggcctgggtg ctatttgcac cctcattgtt actaagtaca cccatctgc tgtttgttgg 360
tgatgctttt ttcgtaaagt taccggaact tacg 394

<210> 36894
<211> 404
<212> DNA
<213> Glycine max

<400> 36894

tcttgacatc atcaaaatct tcgaggaggt acattctgcc ctttgtgat gatgacaacc 60
acctgtaggt tacgagcaac aacaaagaaa atatctattt gcatatagtt tactccccct 120

<211> 263
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36897

ggcttctgtg ancttatagc cgccgaacca agagagggag ttttatttaa ccacaccggg 60
tgactatact ccaaaaaacg taaaaaccac aattcgctaa cgatctagaa taataagata 120
ggggaacaca gagtgcataa gaaggctgtt agtcaatcac ttggtgcaag ttataaccagt 180
gaccatctgg gccaaatcag cctgcaacac caatagcagg aacgtggaag ctccgcgcag 240
tagcaggtgt accccctagg ggc 263

<210> 36898
<211> 402
<212> DNA
<213> Glycine max
<400> 36898

ttctttcaca atcaatctgt ctagtgacta accattctat tataagttca cactcttgtt 60
ctttcgttgt tgaacatgca catttgctca aattcatgaa aggaaacaca catttcatca 120
taagcatcta ttcaatctaa aacaaggcat acaaccattt tcccaaaata aataaactac 180
ttcactgcca taccatcaaa agttaagtta aactgttcac gatgcttcaa gatgagcaaa 240
tatacaactc atgcacaaga ctaacaaaaa gtaactgatg tactaacatc aaagttatac 300
taataattca aaaagcacag gatataatcg acagaaattt acaagtcttg tgatcaggcc 360
taggtgtact atgtctgaac ctctctctcg tcagtcaaat gc 402

<210> 36899
<211> 397
<212> DNA
<213> Glycine max
<400> 36899

tgtaattctt cttctaagtg gagtgtgggt ctaattatgg tttctatacg cttaaagtaa 60
aaaggactaa aagagaaaac attaaaatat taaaggatgt cagctttcta agacggttat 120
tacatcagaa tcgtctaaga aagcaggggtc tgacaaactt tctaagacta ttttgatgta 180
ataaccgcct tagaatgttt attcttctaa gacggttcta ttataaccga ctttgaatgt 240

cagtttttta agacggttat tatatcagaa ccgtcttaga gagtttgtat tttagatgat 300
 ggtgtttttt ggaaccatca ttaattgata ttcactttta acaacattga ttataatgac 360
 aattgaaaat cgtcgttaaa ggccaattta accgtcg 397

<210> 36900
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36900

caaacattaa aagggagaag gtaatatgt agccgatgct ctttctcggc ttcatgcatt 60
 actttctatg cttgaaacaa aattgattgg tcttgaatgt ttgaaaagca tgtatgaaaa 120
 tgatgaaact tttagagaaa tttttaaaaa ttgtgaaaaa ttttcagaaa atggtttctt 180
 tagacatgaa ggctttcttt tcaaagaaaa caaattgtgt gtgcctaaat gttctactag 240
 aaattttctt gtttgtgaag cacatgaagg aggtttaatg gggcattttg ggatccaaaa 300
 gactctagaa acattacaag aacattttta ttggcctcat atganaaagg atgtccacaa 360
 attttgtgaa cattgcattg tatgtaaaaa ggcaaagtct a 401

<210> 36901
 <211> 264
 <212> DNA
 <213> Glycine max
 <400> 36901

tgttggcagt gtgcagtcta attgctatct gaaaatcaag ttgcggggcg ttaaattatt 60
 ccaagtaccg gtgtgcaagc actgaaggta ttcatgcata gaaataatta tatcatgacc 120
 tttgatgctc acaacacatg atcaaacaat gcagactggg tttgcacttg gttctaatta 180
 atgaactggg ctatctgaaa ttgttttaag aaaggaacag agatacactt ctaatttgct 240
 ggacagaatat aattggagtg cctc 264

<210> 36902
 <211> 459
 <212> DNA
 <213> Glycine max

ctcctatgca caaatgggac aatgagacga acacccccct taagacagtt aagagaaaat 420
 agatggtgag agtaaaactcc gaaatgaata atcgctggcc tattattaat actatgaata 480
 atn 483

<210> 36907
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36907

gagaatggac ttcagaagtg tttcanaagt tacaaactac ttcaaggaaa acatgaagga 60
 ggtatagata attcttttaa aatttccatt caatcatgtg atgactttga aagtctaaaa 120
 ttaaagacaa caaagctttg tcttgaaaat gaggatatatt gttaaataaag atatagtata 180
 ttggaagacc ttcagaagtt gaaaaatcaa ctggaaggct tacaaaatga gtatatcaca 240
 ctcaataaac ttcattgattg cctaaatgag gaaagatgta atctattgaa agcatgttcc 300
 caagtccata agaattatga aaacttggag gcaagtaaac atatgatgta gctccaagta 360
 gagcttgtaa gccttggatc tttttcatca atggagtatt ttgcttcttg aagagatcaa 420
 tggcagtgga atgaaaaa 438

<210> 36908
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36908

cttaaagtgn ggaagtacac gcgtggtcta ttgataagat caaagaccag cacaaggatc 60
 tgcaagatat ggaatctact ttgaaggagc tattggtatt gttgttggat tctttgattc 120
 tgttttaaga ttcattagat attgtacctt aattgttgag tttctcacga ccaaggttca 180
 gctcgattaa tggaactgaa aagtcttcac gaggaagaa taagaatatt acagcagttg 240
 tgtgatctac aggtatTTTT tcccttaat actatgtaca ccagtatTTT aactagtatt 300
 tctttcctac aatgcatgta tgtgtatTTT ctttttgctt ttataaggct tgatgttcat 360
 gattggatca taacactttg aagaatttga agt 393

<210> 36909
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36909

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 aactttacga atttcgtaac aatacttatt ttccttccgc aagggttacga atacttacgg 180
 attatgtatt cactcttttt tagctttcga agaaattaca gaaacttacg gattgcgcaa 240
 aaacacctct tttcgacttc cgccacatta cagaatttca cggatcgcgc aagcctgctt 300
 ccttttagatn tctgagacgt ctcaggactt catttattgt gcaacaaagg acgccaagta 360
 tctcaaagtg gctaaccaaa 380

<210> 36910
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 36910

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 attggttgct gtaatgtcat aactcaaac aagttgagag aaatgacgta atgacttctt 180
 aattatttaa ttctaaaagc aaccgaaggt acctaaacga atcaaatac tttcatcgga 240
 taaatgtata tgaaattcac attaatgtga caggcagctt gttaaaat 288

<210> 36911
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 36911

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 aattgaatct ggcaaatgac aaatgacgag tcttagtatt gatctttggt tctttcccaa 180

gttcttctga tctaaaataa aaatctccac cgagtgatct ggctagatca tgcattgaggt 240
catgcattcac aaaacatttg ccataaggcc aactacttct atttgtactt gaacgttgga 300
aaaatgatct cgatatcgaa tcatcaatat actcatgacc aacctcttct aaagtcctac 360
catt 364

<210> 36912
<211> 397
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36912

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aaaaagactt ggtaagttgc caactaaact gtctgttggc caacctacac attctttttg 120
tttgcagggtt acaggttgta tcatctatgg tgaggctcat gaaacacgcc aatgtattcc 180
cattgaagaa aacacttaac aagttcacta tatgcgaaat caacagagac aaggatatac 240
tcaaggagga ttctcatgct tctagcaggg tctttataac caacaaggac agtggagatc 300
acacctgac aatctattct acaaggacca ggggtggacct tccaacaggc ccattcaaca 360
agggcctaac atctttcaga ggactactaa gttggag 397

<210> 36913
<211> 396
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 36913

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caaatgatta tgatgataga tggctcaaat tctcacanag gtaaacttat cactttcaaa 120
ttgagctttc aaaactatca tgacatgtaa aggaaaaaca aggatttcaa gtcacaaaat 180
gtcaagagac ttttattctc agaacaatta ccattactt gaacatatcc tataattcaa 240
agacaaacat gcaaatttaa tgcaacaaaa ctaacaaaat taaactagaa cccaacaaaa 300
ctaacaaaat taatctaatt taacacaact aacaaaaccg aaaccaaaga aactcccccc 360
cccatactta aacaacacat tgtcttcaat gtagca 396

tgatccatgg ccaccttggg ttaccaagtt atccaatgca ttcagtttgc cttcaagcgt 60
 tttatttctca gatgatgcag atggggtttgt tntttctca tgcgctcctc tagtgactat 120
 tgcacatctt gtggcgctaa actgggtggga gttggaagcc atcttctcaa tttaaatttct 180
 ggcttcagca agagtcatgt ctccaagggc tccaccactg ccaacatcta tcatacttct 240
 ctccatatta ctgagtactt cataaacata ttggagataa aactgttctg aaatctgatg 300
 gtggggccac ctggcacata ttttcttata ctggggggga 339

<210> 36917
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 36917

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 taaatcatat gtcataaagg agacgtgcc acaagcgtga ccataatgt ctccactgaa 180
 aaaaataaaa acactctaatt tttcattttt gacatagaat tggcccattg ataaacatct 240
 gtgcaatcca aaaaacaata cacaataaaa tgaatacacc taaactcaag aataaaatca 300
 gagtaaacad caatctaaat tcaaattttc aaacgcatta tccctggacc ttggctctat 360
 gtttgcataa ctgagattaa aactacatc 389

<210> 36918
 <211> 275
 <212> DNA
 <213> Glycine max

<400> 36918

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 gggcacaaaa tctcatatgc cctcaccatg gcctaactat tgtggtggat ttgagaaggg 120
 gctacgtcta agtgcttaag tagagcacac tggaatacaa tcaaaggaat aaccataccc 180
 ataactccaa aaagacattt gtacataaaa aagatgggca aactacctga tactgccctc 240
 acgaaaggga aattgtccct ccacaaaacc tgtat 275

<210> 36919

<211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36919

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 tgggggataa gcaagtgtta cttacattct ccatcggaaa ttatgttgat gaagtgcttt 120
 gtgatatggt tcccatggaa gccagacatg tgttgcttgg gagaccttgg caatatgata 180
 gagatgctgt ccacaatagg gtcaccaatt gatattcttt cttgcataaa ggtaaaatgg 240
 tagttctctc acctttgtct ccaagtgagg tttgtgagga tcaaataaaa atgagattga 300
 aaagagaaaa agaaaagata ttcaaagtaa gaaaaagtcc tttgagagag aataaccaca 360
 aagaagagaa aacataagag tgaaaccaat tagttataaa gagagtttgt ta 412

<210> 36920
 <211> 164
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36920

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 catttagtgt gtgaacttca tatgcgaagg ccctgtgtgg agctgcatgc agtggtgtnt 120
 tgagttggct gcgcacgtgc acgacatgac gatctttgat gatg 164

<210> 36921
 <211> 308
 <212> DNA
 <213> Glycine max

<400> 36921

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 taccattaac gtgtgatcga ttacacaaca acagaggatga ttcttcattt tgaattgaga 120
 aaattaaaac gtttagaagc tctggtaatc gattacaagt gttgcgtaat cgattacact 180
 attttataat gatttgaaac tgtaaacac aaattgtaac tcttgataat gtaaatctaa 240
 acgtgttaac aactggttaa tcccttacta ccttctggtg atcgattacc agagagtata 300

actctgtg

308

<210> 36922
<211> 252
<212> DNA
<213> Glycine max

<400> 36922

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ccacacttcc gagtgaaaag tcttcgtccc tccaatttgc atcgaccatc ggcatcaaat 120
agcgagcgtc ctcatatgct acgggacttg atccgacttc cgagtgaaaa gacagtgtca 180
cattgaaaat gctacgatcg gctatcttca ataacaaagg tctcaatgta ttacgggact 240
ctatcagact ac 252

<210> 36923
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36923

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ggctgaagag catgtgttgt ggctgtttta ctaccgacgc tggctactgt attttctatt 120
ccaccctga ataatacttg gacgatgtcg atttggaat gtacgatcgg agtcatccgg 180
tcatgtttct ttttaagacc tcgatctgtc atcttttcct ggccgacgtc ggctagcatt 240
gttttcgatc aatatctgtg aatcatgctt gttgccacag tgggctaaca gtttcatggc 300
tgatgaaatg agagcatgcc aatgtcggtc gaaacacatc ctgcacgat aaaccctatc 360
cgacctacat tgtaattttt gtaggcaat 389

<210> 36924
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36924

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tgcaaatagt gttggtgttt gtgtgcatca natgaataaa tatttacttc atgcatacat 120
 ttaaaatgta ctaaaagcaa caaagagtnt atatacacia gaacataatg aaaggaaacc 180
 aacaaagggg taagtcacgg taaaacattg cacaaaatta aatggcctaa ctctctaaaa 240
 acattcccca gtggagtcgc caactgtcgc aacctaccct tcggcgggag ggcgacgcga 300
 gactcgcggg atgctgtgtt cacgaaagga atacgcgcgg agtcgccacc aacgtttatt 360
 tgaggaaaac gtcggaaaaa ccggaaaaga cgcgatctac 400

<210> 36925
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36925

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 acaaacgcag gccgataata tttttttacg gtagaggaaa ttttttgttt tgggtgttgc 120
 taaaagattt acaatgtang tcggcaatgt ttttgctgc gagctcaatt gaggttgttt 180
 ttcgggcgaa attggcttgt tctcatttag tcggtcaaga aaacgtagc ccactgcggc 240
 aaaaaagaaa ctttattcac ggaaattgat cgaaaaaatg atgactgacg tcggcatgag 300
 gagatgcctg atcgagggtt anaaatgat agaatcttga tagtgtctct gcctctaggc 360
 cttcatcctt ct 372

<210> 36926
 <211> 199
 <212> DNA
 <213> Glycine max

<400> 36926

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 ctcatagatc cagcctgcat agaagctcct caagcaggct tccatcacgt ggtatcacag 120
 tacaaaagct gcaagcatgt gtccttaaa cctctattaa ttgtcagcta cacacttctg 180
 ctacattgca gtttcttca 199

<210> 36927
 <211> 472

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 36927

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tagaganagt ttttcttacc ggcnaaccag ancgagaggt gtgattgacc caananaccc 120
accccgcgga gaggccagcg anggagacca aagcgnccna agngaatcn ncaccgacac 180
ggaaccacac ngcacanacg caggaaacac agaacagnca ggacagaagg gaaccaagac 240
ataagagata acagggacga gcgcnaaanac agccagaccc gagggcgcgga ggcattgcgca 300
aggagaccgg tgattgaaca aagatctaaa atgagacaga ggagaaataa cacggatggt 360
attatatgaa ctatgtcata aatacgtcca tagaaaattg gtatgtatct tagaaagggtg 420
ataacatact ctcttcgagc tatttgagta aggaatctga gatcatcctg an 472

<210> 36928
<211> 246
<212> DNA
<213> Glycine max

<400> 36928

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aattggatgt caaatcatgt gaagaatctt gtataggttt gcatgtgttt tctaaccctt 120
cctaggggtg tcgtgtgcc a tccctatca cgtcacttcc tagggcttgc tccctcctga 180
attacacgca cacataaaca aaagggtata ttttcttggt taaagcatgc atttccatgt 240
tttcac 246

<210> 36929
<211> 249
<212> DNA
<213> Glycine max

<400> 36929

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agcctgaatc ggacatccgg gtgacaagtt gtgaccatca taatttctct acaccatacc 120
gtgtcaata acgagcgtct cgagagatta cgcgcgtgaa tccgacgtcc gtgtgaaagg 180

tatgaccatc tgggtcggtc gagagcttcc gttgggcaaa atcaagcggc ccgatttatt 240
 atacacctg 249

<210> 36930
 <211> 442
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36930

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 ggaaaacggt tattttcacac tactttttta atacatattc tctttatact tcttaaataa 180
 atgtcaaadc gtaacagaga atatcagctg acttcttcaa tagatgtata acgaaaagaa 240
 acataataat tcacgtaagc aagtaaattg aatatgtctc caataaattt atgccattta 300
 acaatcgttt gtatttgtaa aatatatttc gtactgatta tcatgtacct tttaatgaca 360
 cangagagaa gcacaacacg gaacaaattt gttacgataa gtctaccaat aaaagacaaa 420
 tgtctcgcat tccaattact ta 442

<210> 36931
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 36931

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 atcctgctgg gactattgag aaaactgggg cacataaaga ggggtgagaaa gagggagaaa 120
 cccatgttgt gactgccatt cctatacggc caagtttccc accaacccaa caatgtcatt 180
 actcagccaa taacaaacct ccttaccac caccagtta tccacaaagg ccatccctaa 240
 atcaaccaca aagtctgtct accgcacttc caatgacgaa catcaccttt agcacaatcc 300
 aaaaacacgc gccaaagaaat gagttttgta gcggaaaaaa aacctgtaga attcacccaa 360
 attccggtgt cctatgttga cttgtccca tgtccactcg ataatgcagt ggtagccata 420
 aacctgcta ggtttcctca atctccatt 449

<210> 36932
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 36932

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 gaacgagctc atttcttctt ctatttcctt tagtagcata cacctttggt tggttcctaa 120
 ccctctcatg caacttcttt acaaactcta accttgattc cccttcttta tgtataaaag 180
 aagtgtcaag tgggagggga attaggtctt aggggtgtag aggattgaac ccatagataa 240
 cctcaaaagg ggattgcttg gttgttctat gaatccccct gtngtaggaa aattctacat 300
 aaggaagata ctaatcctaa gacttatggg ttcttttcag aaaagccctt aaaagggtgg 360
 atagagaccc attcactacc tttgtttgcc catcaattta tggatgacaa gtggtag 417

<210> 36933
 <211> 173
 <212> DNA
 <213> Glycine max

<400> 36933

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 taagtctatc atatgctgac aatagccgag aagcccatga atctcttccg gggaggagta 120
 agtgtatgcc attgccttgg ccttggctaa caagcagga agttcttgac tcc 173

<210> 36934
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 36934

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 cctgcataca acccaaacgc cttgtaacta actcactacc agtagcatgc ccaagaagat 180
 ttgcttcaat agacattagc atgccatgta tcaattgaac gtgagaaatc atatggcgag 240
 ggттаатссt таасссtас atcaatatgc at 272

<210> 36935
 <211> 342
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 36935

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gtcctgagct gacgtatgct ggccatgagg tgaacaacga gtatcctggg ctgggtgagg  180
agtctccaat gtgctgtacg ccaaggatcc caagtactct gcgcgcgcta tataatctgct  240
gcatattcag tgttctcggc gccttcttca ccctcagaga cctccaagac aggtaaagta  300
gcatgtgaaa cctgtggaat ggcctcatga gtaacctcta tc                        342
  
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